551.573
UN36wi
1976-1977

551.573
U136wi

WATER SUPPLY OUTLOOK FOR IDAHO

THE LIBRARY OF THE
FEB 17 1976
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

AS OF
JAN. 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

U.S. DEPARTMENT of AGRICULTURE
CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY
SOIL CONSERVATION SERVICE

USDA SCS PORTLAND OREG 1973

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
and
MARION O. CARSTENS, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JANUARY 1, 1976

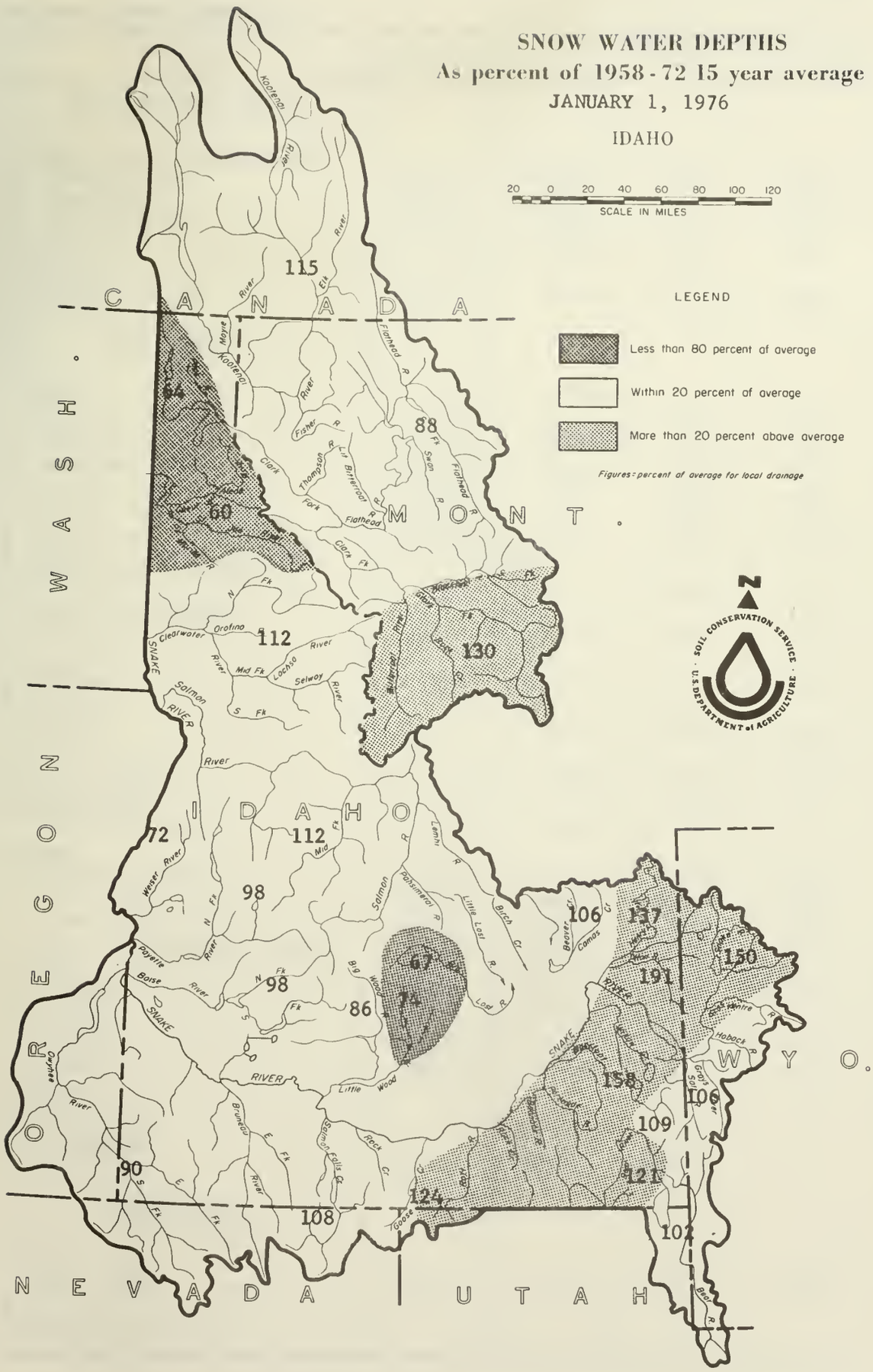
Snow accumulation in the mountains of Idaho thus far in the 1975-76 winter season has been extremely variable. Below normal snowpack exists on the Priest and Spokane River watersheds in north Idaho and the Little Wood, Big Lost and Weiser River drainages in the southern portion of the state. Above to well above normal conditions exist in the southern and eastern watersheds from the Raft River drainage north and east throughout the Snake River Basin. Snowpack is near normal on all other watersheds of the state. The Teton River drainage reports 191% of normal January 1 snowpack as of the 8th of January. Heavy and continuous storms during the first week of January will reflect a marked improvement in snow accumulation throughout the state. Should these storms persist during the month, it can be expected that snow accumulation near February 1 will be near to well above normal on all watersheds of Idaho.

In general, soil moisture is good to excellent due to the wet fall experience before the snowfall began accumulating.

Carryover storage in the irrigation reservoirs is good to excellent throughout the state.

COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	4	110	115
Pend Oreille River	37	132	116
Clark Fork River	27	97	130
Flathead River	10	93	88
Priest River	4	53	64
Spokane River	2-4	74	60
LOWER SNAKE RIVER BASIN			
Clearwater River	3-12	144	112
Salmon River	9-11	137	112
MIDDLE SNAKE RIVER BASIN - Northside			
Big Lost River	1-5	154	67
Little Wood River	2-4	142	74
Big Wood River	6-7	137	86
Boise River	6-7	98	98
Payette River	5-8	119	98
Weiser River	1	76	72
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	115	124
Salmon Falls Creek	4	88	108
Owyhee River	4	80	90
Jordan Creek	2	92	90
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	15	--	142
Camas-Beaver Creeks	2	116	106
Henrys Fork River	6-7	210	137
Teton River	2	168	191
Blackfoot River	1-2	122	158
GREAT BASIN			
Bear River - Upper	1	--	102
Bear River - Lower	5	--	121
Montpelier Creek	4	128	109
Cub River	2	86	--


SNOW WATER DEPTHS
As percent of 1958 - 72 15 year average
JANUARY 1, 1976
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Less than 80 percent of average
Within 20 percent of average
More than 20 percent above average
Figures = percent of average for local drainage
N
SOIL CONSERVATION SERVICE
U.S. DEPARTMENT of AGRICULTURE
CANADA
MONT.
WASH.
IDAHO
OREGON
WYO.
NEVADA
UTAH
115
64
60
88
112
130
72
112
98
98
86
67
74
106
137
150
191
158
106
109
121
124
108
90
102
Kootenai River
Elk River
Moyie River
Flathead R
Fisher R
Thompson R
Lit Bitterroot R
Swan R
Clark Fork
Flathead
Clark Fk
N Fk
Clearwater
Orofino
Mid Fk
Lochsa River
Selway River
S Fk
SNAKE RIVER
Salmon River
Weiser River
Payette River
Boise River
Big Wood
Little Wood
Lemhi R
Pahsimeroi R
Little Lost R
Birch Cr
Beaver Cr
Camas Cr
Lost R
Owyhee River
Bruneau River
Salmon Falls Cr
Rock Cr
Goose
Hoback R
Grays River
Bear R

RESERVOIR STORAGE (1,000 Ac. Ft.)

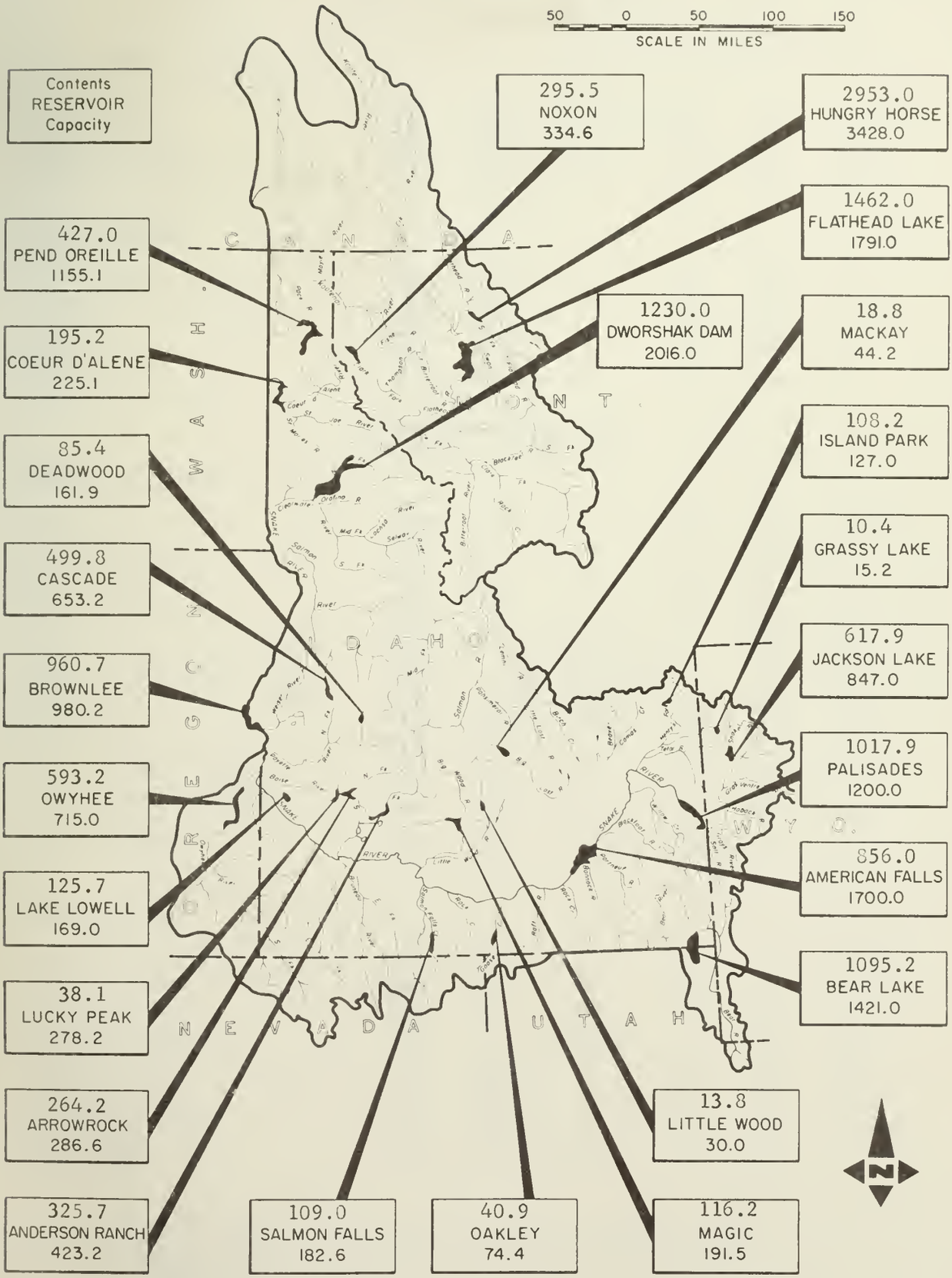
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2953.0	2162.0	2766.0
Flathead	1791.0	1462.0	1479.0	1423.0
Pend Oreille	1155.1	427.0	134.2	431.2
Noxon	334.6	295.5	321.2	325.5
Spokane				
Coeur d'Alene	225.1	195.2	61.6	138.2
SNAKE BASIN				
Snake				
Jackson Lake	847.0	617.9	599.3	531.5
Palisades	1200.0	1017.9	978.4	751.3
American Falls	1125.0	856.0	926.4	448.4
Island Park	127.0	108.2	103.5	82.0
Grassy Lake	15.2	10.4	10.5	9.6
Brownlee	980.2	960.7	873.8	792.7*
Goose-Trapper Creeks				
Oakley	74.4	40.9	35.5	12.6
Salmon Falls Creek				
Salmon Falls	182.6	109.0	58.5	25.5
Big Lost				
Mackay	44.2	18.8	21.7	27.7
Big Wood				
Magic	191.5	116.2	100.3	88.5
Little Wood				
Little Wood	30.0	13.8	10.4	11.6
Fish Creek				
Carey Valley	14.4	5.8	3.5	--
Boise				
Anderson Ranch	423.2	325.7	292.2	278.0
Arrowrock	286.6	264.2	215.6	204.9
Lucky Peak	278.2	38.1	50.8	60.3
Lake Lowell (Deer Flat)	169.0	125.7	112.2	106.3
Owyhee				
Owyhee	715.0	593.2	410.1	406.8
Payette				
Cascade	653.2	499.8	397.0	354.0
Deadwood	161.9	85.4	77.3	68.0
Weiser				
Mann Creek	11.1	4.1	2.7	--
Clearwater				
Dworshak	2016.0	1230.0	1214.5	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1095.2	1087.5	944.4

*Period of Record

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1976



SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average b/
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	12/29	T	T	1.9	3.5
Benton Spring	4900	12/29	10	2.6	9.3	8.4
Schweitzer Bowl	4500	12/30	33	8.8	16.6	14.3*
Schweitzer Ridge	6100	12/30	52	19.2	30.2	21.6*
SPOKANE RIVER						
Above Burke	4100	12/29	29	8.4	9.7	--
Fourth of July Summit	3200	12/29	T	T	4.3	4.1*
Lookout	5120	12/29	45	11.8	13.6	15.5
Sherwin	3200	12/31	26	7.9	5.6	--
Sherwin (SP)	3200	12/31	--	7.8	6.0	--
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Cayuse Airstrip	3700	1/2	22	4.8	3.5	5.5*
Cottonwood Butte	5140	12/29	22	6.3	3.7	--
Crater Meadows	6100	1/2	74	21.2	13.8	--
Crooked Fork	3600	12/29	24	6.7	6.0	--
Hemlock Butte	5500	1/2	85	25.8	15.4	--
#Hoodoo Basin Mont.	6000	Not Measured			17.0	20.8
#Hoodoo Basin (SP) Mont.	6000	Not Measured			18.1	19.1
#Hoodoo Creek Mont.	5900	Not Measured			13.9	18.9
Lolo Pass	5240	12/30	54	13.8	10.7	11.7*
Lower Snowhaven	5300	12/29	37	9.7	5.8	--
Pierce Ranger Station	3170	1/2	21	5.6	4.5	4.5
Powell Ranger Station	3400	12/29	21	6.6	5.0	--
Savage Pass	6170	12/29	52	14.4	9.1	--
Shanghai Summit	4600	1/2	35	8.9	8.4	--
Upper Snowhaven	5600	12/29	29	8.8	6.0	--
SALMON RIVER						
Big Creek Summit	6600	12/26	51	16.0	9.7	13.8*
#Boulder Creek	5500	1/3	33	7.2	9.5	10.0*
Brundage Mountain	7560	12/29	64	21.8	13.8	18.6*
#Deadwood Summit	7000	Delayed			13.1	24.4*
#Galena Summit	8795	12/30	43	11.4	8.9	10.4
#Gibbons Pass Mont.	7100	12/30	49	11.5	6.7	9.5
Mill Creek Summit	8870	12/30	44	12.6	7.5	10.5*
Moose Creek	6200	12/31	41	9.6	5.2	5.6*
Morgan Creek	7580	12/29	25	6.3	4.0	5.9*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [4]
#Rock Flat Summit	5200	12/29	25	5.5	6.6	6.8
#Secesh Summit	6520	12/27	55	15.7	12.4	--
#Squaw Meadow	5800	12/27	46	14.0	11.5	--
Vienna Mine	8960		Delayed		11.3	--
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
BIG LOST RIVER						
Bear Canyon	7920	12/29	22	5.4	3.0	--
Copper Basin	7650	12/29	8	1.7	0.9	--
Fishpole Lake	9350	12/29	19	4.6	4.9	--
Lost-Wood Divide	7900	12/29	31	9.2	4.5	--
Stickney Mill	7500	12/29	16	3.2	2.3	--
White Knob	7700	12/31	14	2.4	--	3.6
LITTLE WOOD RIVER						
#Bear Canyon	7920	12/29	22	5.4	3.0	--
Garfield Ranger Station	6554	12/31	14	2.6	2.6	4.4*
Muldoon	6300	12/31	13	3.0	2.1	3.2*
Swede Peak	7650	12/31	24	5.7	4.1	--
BIG WOOD RIVER						
#Couch Summit	6950	1/2	27	6.2	--	7.4*
Galena	7300	12/30	32	7.7	5.9	8.0
Galena Summit	8795	12/30	43	11.4	8.9	10.4
Graham Ranch	6200	12/29	21	4.2	3.8	5.6
#Lost-Wood Divide	7900	12/29	31	9.2	4.5	--
Mascot Mine	7900	12/29	18	4.3	2.1	--
Mount Baldy	9000	12/30	32	5.6	6.2	8.8
Soldier Ranger Station	6100	1/2	17	3.8	2.4	5.2*
#Vienna Mine	8960		Delayed		11.3	--
BOISE RIVER						
Atlanta Summit	7500		Delayed		10.7	15.2*
Bad Bear	5500	12/29	23	5.4	6.1	6.5*
#Bogus Basin	6120	12/30	30	7.5	11.3	9.3
Bogus Basin Road	5360	12/30	10	1.9	5.3	2.4*
Couch Summit	6950	1/2	27	6.2	--	7.4*
Graham Guard Station	5690		Delayed		5.9	--
Jackson Peak	7000		Delayed		--	--
Moores Creek Summit	6100	12/29	53	16.7	11.1	13.0
#Soldier Ranger Station	6100	1/2	17	3.8	2.4	5.2*
Trinity Mountain	7780		Delayed		14.0	19.1*
#Vienna Mine	8960		Delayed		11.3	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average ½
PAYETTE RIVER							
#Big Creek Summit		6600	12/26	51	16.0	9.7	13.8*
Bogus Basin		6120	12/30	30	7.5	11.3	9.3
#Brundage Mountain		7560	12/29	64	21.8	13.8	18.6*
Cozy Cove		5400		Delayed		5.5	6.9
Crawford Ranger Station		4800	12/26	0	0.0	1.4	3.1*
Deadwood Airstrip		5440		Delayed		5.5	6.6
Deadwood Summit		7000		Delayed		13.1	24.4*
#Jackson Peak		7000		Delayed		--	--
Lake Fork		6000	12/27	27	6.5	6.5	--
Rock Flat Summit		5200	12/29	25	5.5	6.6	6.8
Secesh Summit		6520	12/27	55	15.7	12.4	--
Squaw Meadow		5800	12/27	46	14.0	11.5	--
WEISER RIVER							
Boulder Creek		5500	1/3	33	7.2	9.5	10.0*
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Howell Canyon		8000	12/30	38	12.3	10.7	9.9
SALMON FALLS CREEK							
Deadline		6900	12/30	31	8.1	9.8	8.7
Goat Creek	Nev.	8800	12/29	26	7.2	8.2	7.2*
Magic Mountain		6700	12/30	30	8.2	7.9	6.9
#Pole Creek R. S.	Nev.	8330	12/29	31	9.4	11.5	7.7
OWYHEE RIVER							
#Seventy-six Creek	Nev.	7100	12/26	12	3.0	5.9	6.2*
Silver City		6400	12/29	16	4.6	6.2	5.6*
South Mountain		6340	12/30	16	4.8	4.0	4.9*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	12/29	19	4.3	3.8	4.3
Kilgore		6200	12/30	23	4.9	4.1	4.4*
HENRYS FORK RIVER							
Big Springs		6400	12/30	45	10.5	5.0	7.8
Grassy Lake	Wyo.	7230	12/30	72	22.9	11.1	14.1
Island Park		6315	12/30	40	8.8	4.4	6.1
Sawtell Mountain		8720	12/30	60	17.1	9.0	14.0*
Targhee Pass		7000	12/30	38	8.2	3.7	6.5*
Valley View		6500	12/30	38	7.8	3.5	6.3
White Elephant		7700	12/30	50	14.0	5.8	--
TETON RIVER							
Freds Mountain	Wyo.	8150	1/8	72	17.5	--	--
Pine Creek Pass		6750	1/8	57	12.6	7.3	6.6*
State Line		6650	1/8	45	10.9	6.7	5.7
BLACKFOOT RIVER							
Slug Creek Divide		7225	12/31	32	7.1	7.5	--
Somsen Ranch		7000	1/2	31	8.2	5.0	5.2*
GREAT BASIN							
BEAR RIVER							
Emigrant Summit		7350	1/8	52	12.4	10.2	9.2*
Montpelier Creek							
Giveout		6840	12/31	25	6.0	4.6	4.6*
Little Beaver		6970	12/31	28	6.6	6.0	5.4*
Montpelier Creek		6570	12/31	14	3.0	2.2	3.5*
Whiskey Flat		6985	12/31	13	3.1	1.8	3.7*
Cub River							
Cub River R. S.		5400	12/29	16	4.3	--	--
#Franklin Basin		8000	12/29	32	10.0	11.3	--
Willow Flat		6100	12/29	20	6.6	7.9	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SPOKANE RIVER							
Lookout	5250	48	11.0	12/29	8.5	--	8.6
SALMON RIVER							
Mill Creek Summit	8870	48	9.4	12/30	4.5	Frozen	4.6
BIG WOOD RIVER							
Galena	7300	48	10.1	12/30	7.0	5.0	7.7
Galena Summit	8795	48	5.8	12/30	1.6	1.0	1.5
RAFT RIVER							
Conner Pass	5700	36	9.8	12/30	8.8	8.2	--
Howell Canyon	8000	48	11.5	12/30	8.9	5.5	8.3
SALMON FALLS CREEK							
Deadline	6900	36	7.4	12/30	6.8	5.7	6.7
Patrick Ranch	5720	36	7.7	12/29	6.5	--	4.4
Pole Creek R. S.	8330	48	9.7	12/29	8.1	6.8	8.1
HENRYS FORK RIVER							
Island Park	6315	48	9.9	12/30	8.6	7.6	10.7
MONTPELIER CREEK							
Giveout Pass	7025	36	9.4	12/31	4.5	2.4	7.5
Jenson Ranch	6580	48	18.7	12/31	14.6	6.1	11.2

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Caoperative Snow Surveys
Oregon Agricultural Experiment Statian
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Coaperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reparting Service

U.S. Department of Commerce
NOAA, Natianal Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Contral

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

1 513
36W1

WATER SUPPLY OUTLOOK FOR IDAHO

THE LIBRARY OF THE

FEB 19 19

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

AS OF
FEB. 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
S"S PHOTO AZ-S460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OREG 1979

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
and
MARION O. CARSTENS, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR FEBRUARY 1, 1976

In general this was a mild January with above normal temperatures and below average precipitation. Frequent and substantial precipitation fell during the first half of the month but the remainder of the month was predominantly dry. Snowpack accumulations in the mountainous watersheds of Idaho as of February 1 range from a low of 57 percent of average on the Little Wood drainage to a high of 136 percent of normal on the Teton watershed. The snowpack is above to well above normal on all Snake River and tributary drainages above Milner Dam and below average on the remainder of the tributary watersheds to the Clearwater River which shows 108 percent of normal.

Streamflow during January was above normal on most Idaho streams but not conducive to flooding from runoff. Reservoir storage is good to excellent throughout the state. Streamflow forecasts for the April through September 1976 seasonal period range from a low of 66 percent of average for Inflow to Magic Reservoir on the Big Wood River to 106 percent of normal for Snake River near Heise.

The outlook is for adequate water supplies during 1976 on all drainages having storage facilities. The water supply outlook for other watersheds will be dependent upon weather conditions during the remainder of the winter.

COMPARISON of SNOW COVER

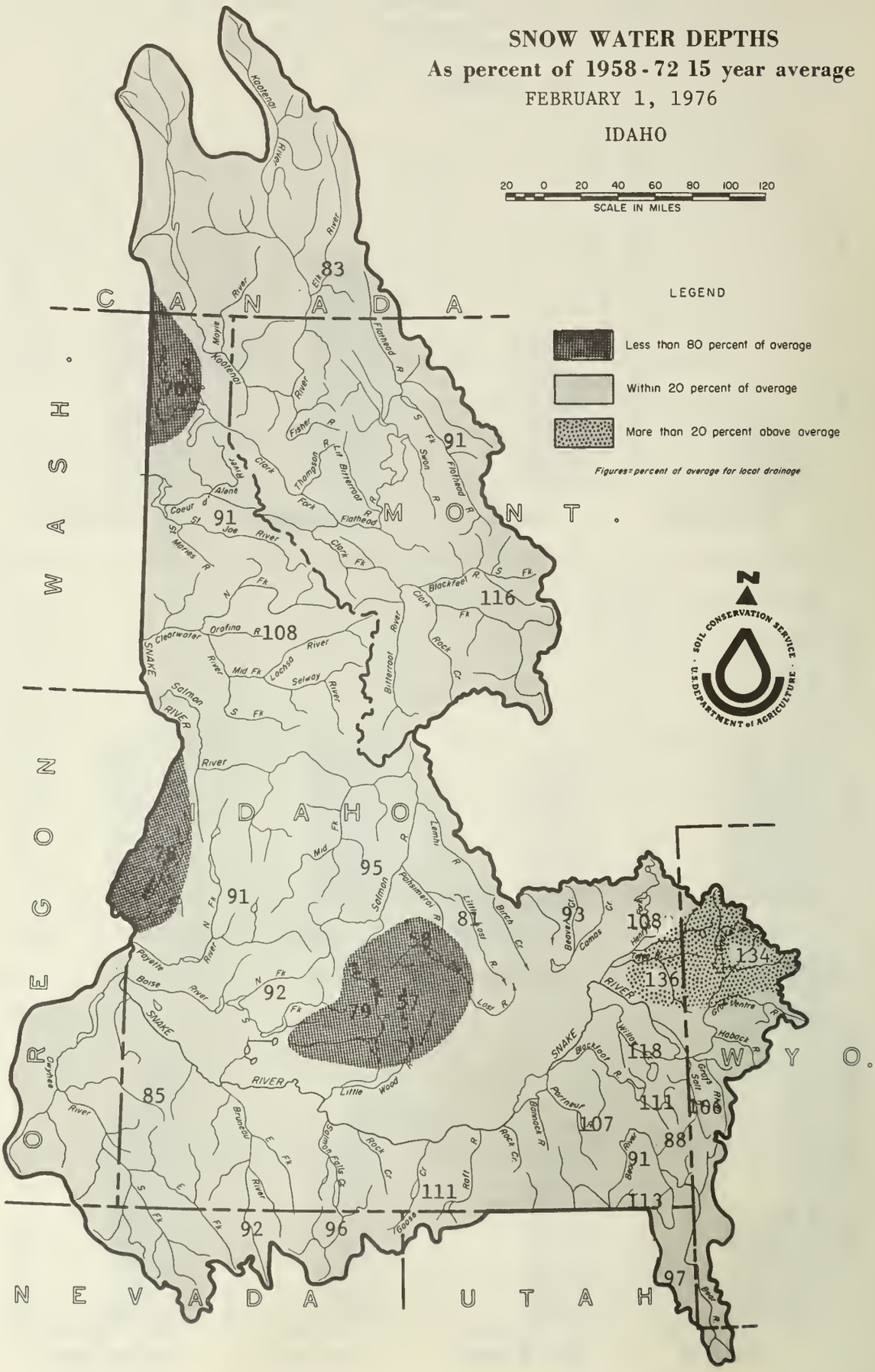
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	8	91	83
Pend Oreille River	43	107	107
Clark Fork River	31	110	116
Flathead River	12	101	91
Priest River	4	58	70
Spokane River	3-5	86	91
LOWER SNAKE RIVER BASIN			
Clearwater River	8-13	105	108
Salmon River	12-13	107	95
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	139	81
Big Lost River	4-6	106	58
Little Wood River	3-4	114	57
Big Wood River	8-9	116	79
Boise River	11	110	92
Payette River	10-11	107	91
Weiser River	1	99	78
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	116	111
Salmon Falls Creek	8	80	96
Bruneau River	4	73	92
Owyhee River, Idaho	7	65	80
Jordan Creek	2	74	85
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	28	149	125
Camas-Beaver Creeks	2	104	93
Henrys Fork River	6-7	160	108
Teton River	2-5	158	136
Willow-Sand Creeks	6-10	139	118
Blackfoot River	3	109	111
Portneuf River	4	104	107
GREAT BASIN			
Bear River - Upper	6	106	97
Bear River - Lower	12	92	92
Montpelier Creek	4-6	109	88
Mink Creek	7	92	91
Cub River	2-3	96	113

SNOW WATER DEPTHS

As percent of 1958-72 15 year average

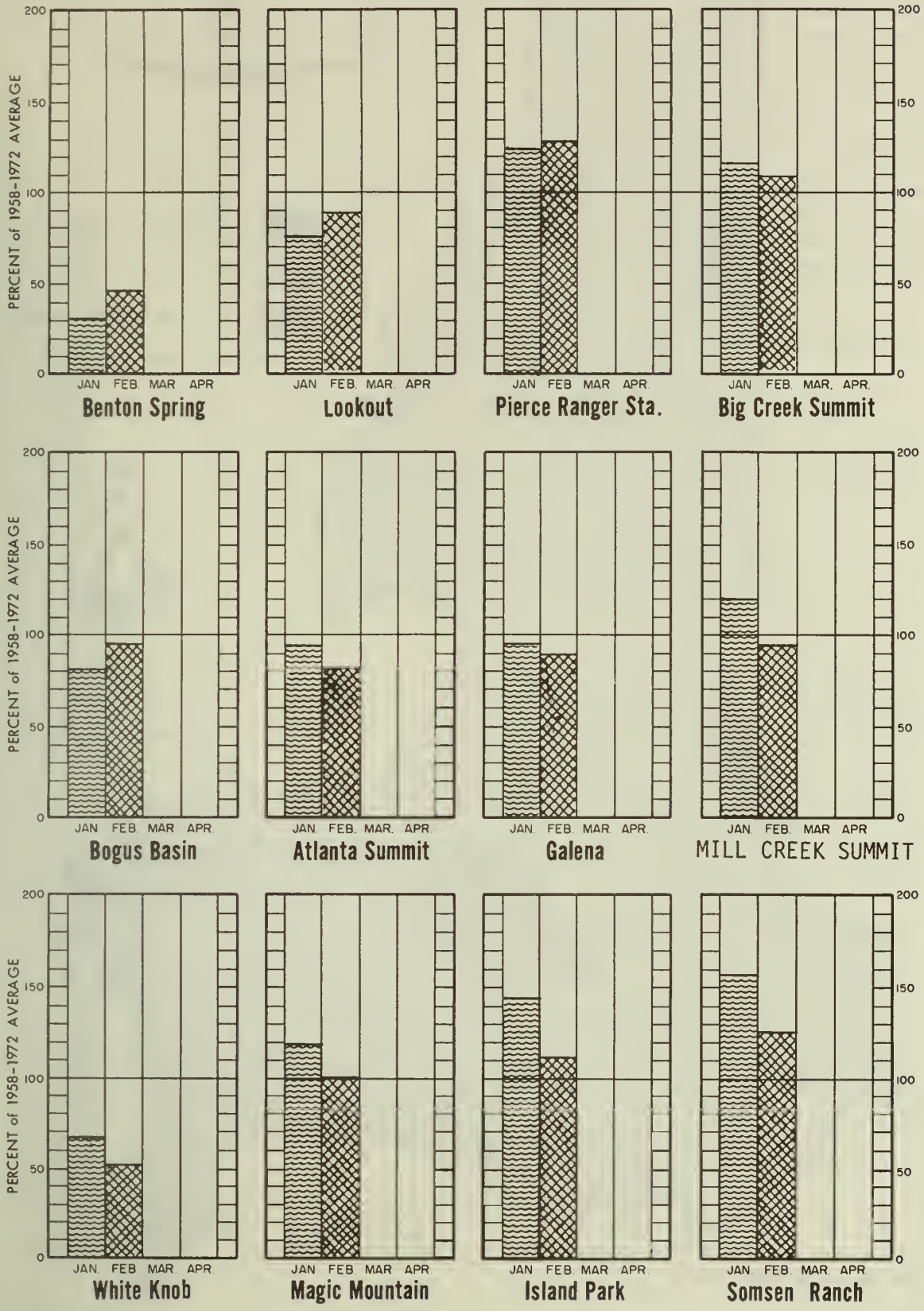
FEBRUARY 1, 1976

IDAHO



SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

FEBRUARY 1, 1976



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter January 1976		Fall - Winter Nov. 75 - Jan. 76	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U. S.	2.90	-0.79	9.95	-0.30
Flathead	1.97	-0.97	5.87	-1.86
Clark Fork	0.81	-0.59	3.01	-0.44
Pend Oreille-Spokane	3.55	-1.24	11.83	-1.10
Upper Snake	2.34	-0.29	7.08	+0.34
Snake River Plain	0.97	-0.17	2.51	-0.87
Salmon-Payette-Boise	3.07	-0.31	7.69	-0.76
Clearwater	4.37	+0.50	12.82	+2.50
Owyhee-Malheur	0.94	-0.48	2.39	-1.50

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-1972) drainage division average.

RESERVOIR STORAGE (1,000 Ac. Ft.)

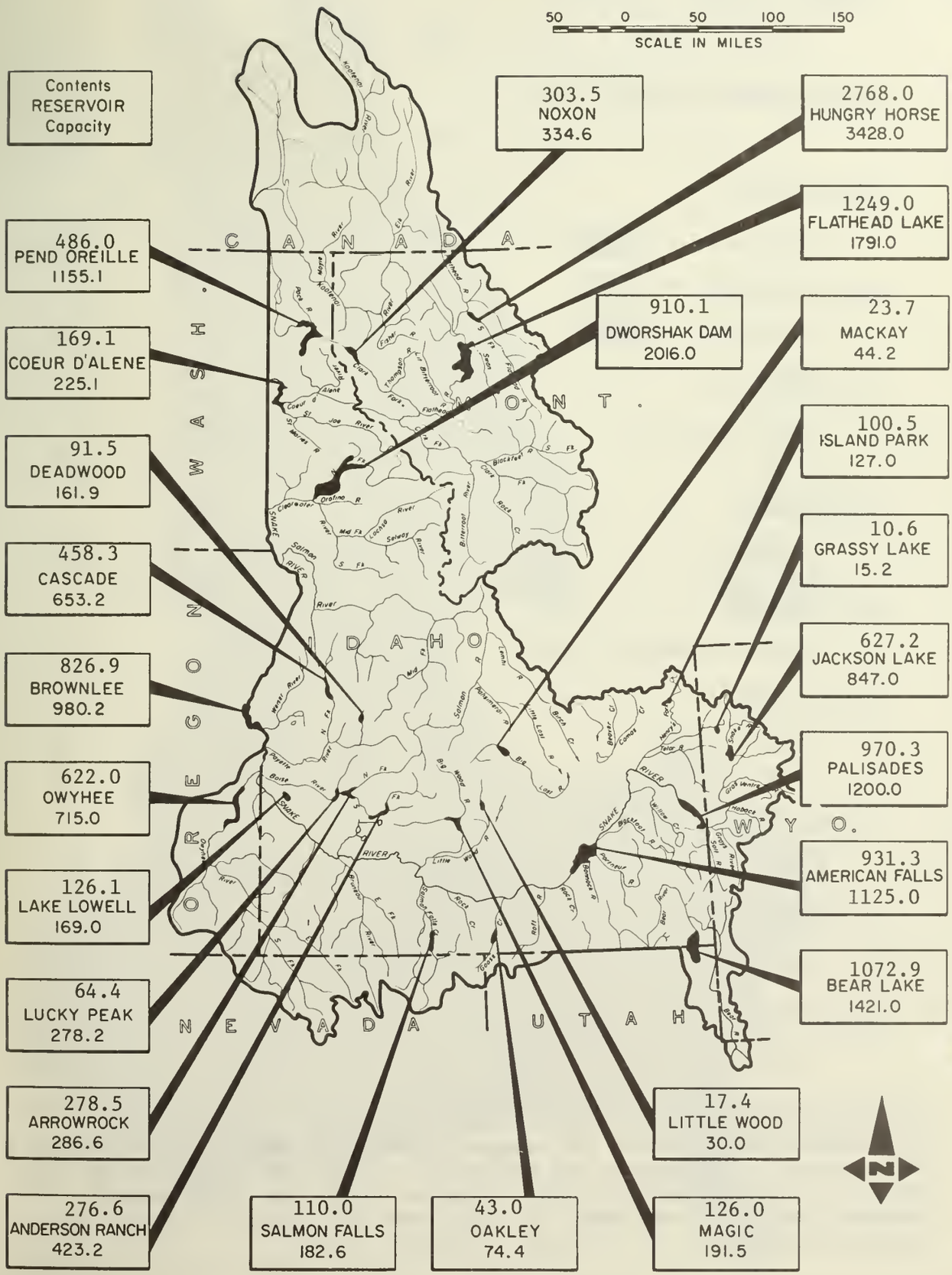
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2768.0	1990.0	2484.0
Flathead	1791.0	1249.0	1085.0	1246.0
Pend Oreille	1155.1	486.0	255.9	438.2
Noxon	334.6	303.5	313.1	320.8
Spokane				
Coeur d'Alene	225.1	169.1	64.0	138.4
SNAKE BASIN				
Snake				
Jackson Lake	847.0	627.2	611.9	540.9
Palisades	1200.0	970.3	967.9	782.1
American Falls	1125.0	931.3	1009.3	623.6
Island Park	127.0	100.5	104.0	99.9
Grassy Lake	15.2	10.6	10.8	10.0
Brownlee	980.2	826.9	739.4	636.1*
Goose-Trapper Creeks				
Oakley	74.4	43.0	37.3	15.7
Salmon Falls Creek				
Salmon Falls	182.6	110.0	60.4	29.2
Big Lost				
Mackay	44.2	23.7	25.7	29.9
Big Wood				
Magic	191.5	126.0	106.5	92.8
Little Wood				
Little Wood	30.0	17.4	13.6	13.5
Fish Creek				
Carey Valley	14.4	6.5	4.7	--
Boise				
Anderson Ranch	423.2	276.6	279.4	257.1
Arrowrock	286.6	278.5	278.4	240.4
Lucky Peak	278.2	64.4	49.6	92.7
Lake Lowell (Deer Flat)	169.0	126.1	112.7	114.0
Owyhee				
Owyhee	715.0	622.0	432.7	407.7
Payette				
Cascade	653.2	458.3	362.8	342.1
Deadwood	161.9	91.5	82.9	73.8
Weiser				
Mann Creek	11.1	5.1	3.2	--
Clearwater				
Dworshak	2016.0	910.1	1048.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1072.9	1069.5	944.9

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1976



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
KOOTENAI RIVER						
Leonia	(at)	8900	98	Apr-Sep	8093	9073
SPOKANE RIVER						
Post Falls 1/	(at)	2700	90	Apr-Sep	--	3008
SNAKE RIVER						
Heise 2/	(nr)	4200	106	Apr-Sep	--	3946
BIG LOST RIVER						
Mackay 3/	(nr)	125	68	Apr-Sep	--	183
BIG WOOD RIVER						
Magic Reservoir Inflow		200	66	Apr-Sep	--	301
BOISE RIVER						
Boise 4/	(nr)	1550	96	Apr-Sep	--	1612
PAYETTE RIVER						
Horseshoe Bend 5/	(nr)	1950	105	Apr-Sep	--	1850
OWYHEE RIVER						
Lake Owyhee		460	90	Feb-Jul	--	510
net inflow 6/		272	82	Apr-Sep	--	332
SALMON RIVER						
Whitebird	(at)	6900	99	Apr-Sep	--	6959
CLEARWATER RIVER						
Spalding	(at)	8900	103	Apr-Sep	--	8605
BEAR RIVER						
Harer	(at)	230	85	Apr-Sep	--	271

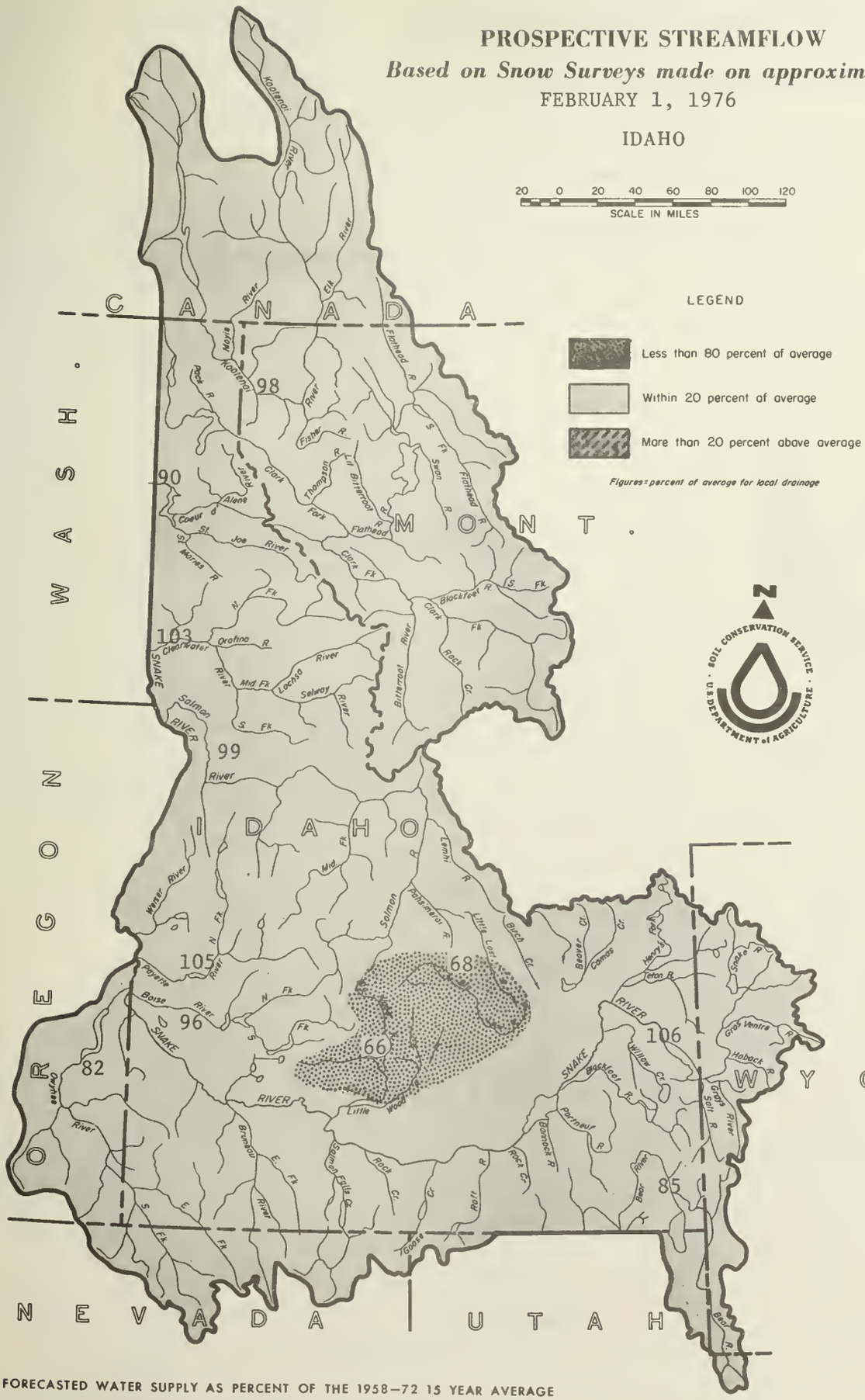
(c) Assuming normal meteorological conditions.
1/ Observed flow corrected for storage in Coeur d'Alene Lake. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Cascade and Deadwood Reservoirs. 6/ U.S.B.R. records of inflow.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

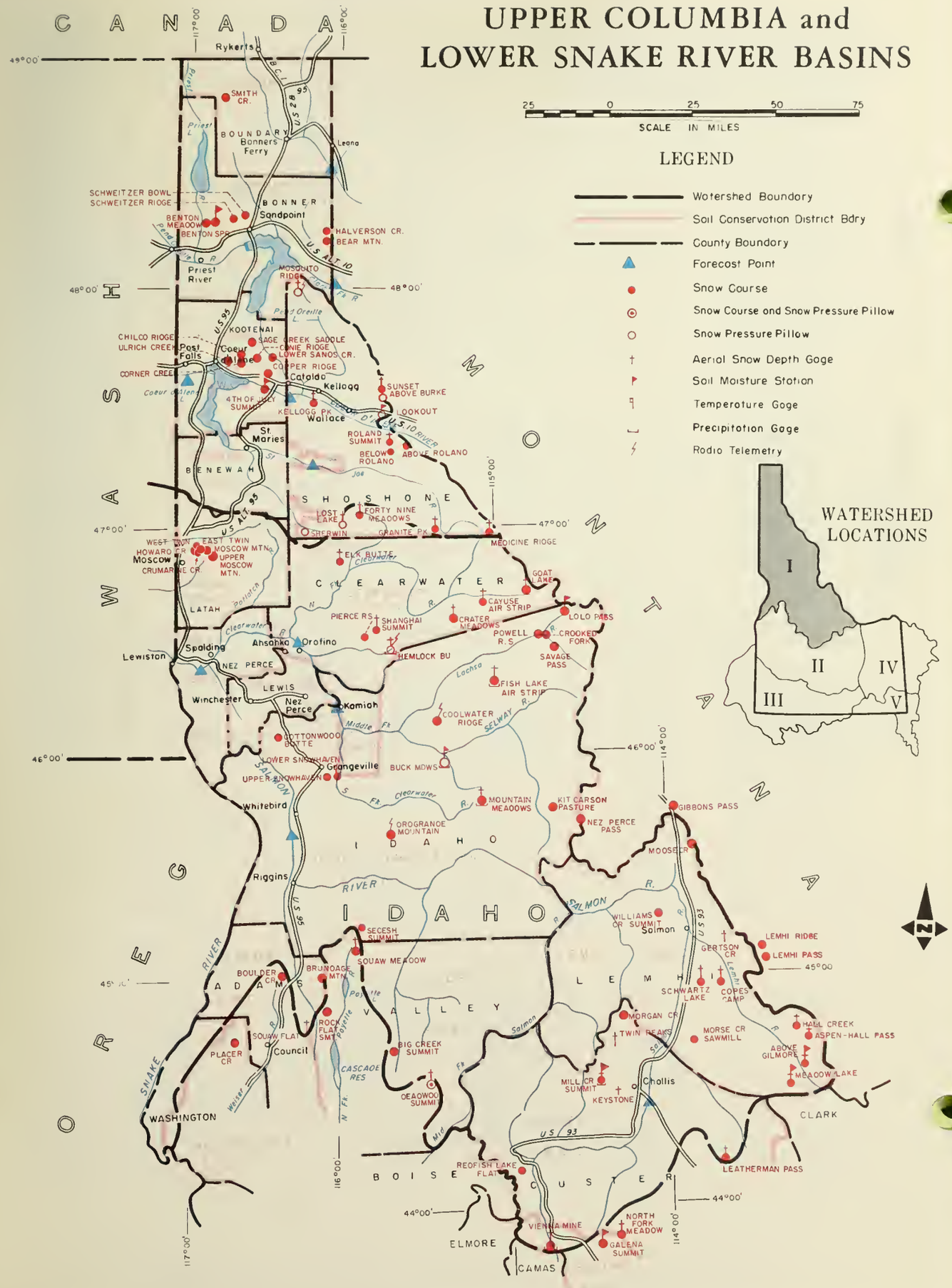
FEBRUARY 1, 1976

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958–72 15 YEAR AVERAGE

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

KOOTENAI RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE - PRIEST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

HAYDEN CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100

SPOKANE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	5920
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28 & 33	42N	1E	3200
15B9ASP	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

CLEARWATER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 & 9	29N	3E	5600

SALMON RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	34	10N	13E	6570
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E3A	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine	32	6N	14E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND, OREG. 1975 M7-OL-22023-1

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	1/27	13	3.4	5.3	6.0
Benton Spring	4900	1/30	21	6.2	14.8	13.8
#Mosquito Ridge	5110	1/27	65	22.3	--	--
Schweitzer Bowl	4500	2/2	43	14.9	27.1	22.6*
Schweitzer Ridge	6100	2/2	70	27.5	43.2	32.1*
SPOKANE RIVER						
Above Burke	4100	1/30	53	16.1	16.2	--
Fourth of July Summit	3200	1/29	17	5.4	9.8	6.8*
Lookout	5120	1/30	71	23.4	27.2	26.4
Mosquito Ridge	5110	1/27	65	22.3	--	--
Sherwin	3200	1/30	38	11.6	14.4	11.0*
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Cayuse Airstrip	3700	1/29	33	8.5	11.0	9.4*
Cottonwood Butte	5140	1/30	37	10.5	10.7	--
Crater Meadows	6100	1/29	98	31.8	29.1	31.2*
Crooked Fork	3600	1/29	36	12.4	12.3	--
Fish Lake Airstrip	5000	1/29	98	29.6	27.4	28.0*
Hemlock Butte	5500	1/29	120	38.0	33.4	32.8*
Lolo Pass	5240	1/29	76	24.7	22.4	22.9*
Lower Snowhaven	5300	1/30	50	16.0	15.0	--
Pierce Ranger Station	3170	1/30	39	10.8	11.9	8.4
Powell Ranger Station	3400	1/29	37	11.7	11.8	--
Savage Pass	6170	1/30	69	23.2	19.7	19.7*
Shanghai Summit	4600	1/29	60	16.6	18.7	17.8*
Upper Snowhaven	5600	1/30	43	14.5	14.0	--
SALMON RIVER						
Big Creek Summit	6600	1/30	78	27.2	22.0	24.9
#Boulder Creek	5500	1/30	45	14.0	14.2	17.9*
Brundage Mountain	7560	1/29	90	30.4	24.6	34.7*
#Deadwood Summit	7000	1/30	80	27.5	29.2	33.9*
#Galena Summit	8795	1/27	52	15.0	14.1	16.7
#Gibbons Pass Mont.	7100	1/28	60	20.6	17.6	16.0
Mill Creek Summit	8870	1/28	52	17.0	13.9	17.8*
Moose Creek	6200	2/3	41	14.1	16.9	11.8
Morgan Creek	7580	1/28	37	10.6	9.8	10.5*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
#Rock Flat Summit	5200	1/29	43	11.8	11.1	12.8
#Secesh Summit	6520	1/29	68	24.5	22.6	--
#Squaw Meadow	5800	1/29	62	22.8	22.5	25.0*
Vienna Mine	8960	1/29	72	24.1	23.5	25.4*

*(b) 1958-72, 15 year period. #Nat lacated directly an this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snaw-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN NORTHSIDE

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7450
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7600

BIG LOST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13F3	I	Bear Canyon	26	5N	21E	7920
13F2A	I	Copper Basin	24	6N	21E	7650
13F8A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	19	6N	19E	7900
14F2A	I	Stickney Mill	9	6N	19E	7500
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12MPS	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13F4	I	Garfield Ranger Station	11	3N	21E	6554
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7650

FISH CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

BOISE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5360
14F10	I	Couch Summit	9	2N	14E	6950
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7000
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4900
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16F2PS	I	Bogus Basin	16	5N	3E	6120
15E8PSR	I	Cozy Cove	19	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E7	I	Deadwood Dam	8	11N	7E	5290
15E4AS	I	Deadwood Summit	23	14N	7E	7000
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5200
15D1	I	Secesh Summit	34	22N	4E	6520
15D2	I	Squaw Meadow	5	21N	4E	5800
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16D1P	I	Boulder Creek	15	20N	1W	5500
16E2	I	Placer Creek	15&16	17N	3W	6000

MANN CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	21	15N	5W	6800
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE ANO SOIL MDISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S.	SNOW COURSE ANO PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION ANO PRECIPITATIDN GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RAOIOACTIVE GAGE

USDA SCS PORTLAND OREG 1972 M7-OL-22023-2

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]

MIDDLE SNAKE RIVER BASIN - NORTHSIDE

LITTLE LOST RIVER

Fairview Guard Station	6750	1/28	18	3.2	2.3	3.8
Lost Garfield	6600	1/28	17	2.8	2.7	3.2
Moonshine	7450	1/28	32	8.2	5.4	8.0
Sawmill Canyon	6900	1/28	25	5.4	4.1	6.4
Wet Creek Summit	7600	1/29	24	4.8	3.0	8.8*

BIG LOST RIVER

Bear Canyon	7920	1/26	27	6.0	5.5	--
Copper Basin	7650	1/26	11	2.3	2.2	7.3*
Fishpole Lake	9350	1/26	31	8.0	6.4	--
Lost-Wood Divide	7900	1/26	42	11.9	10.0	17.3*
Stickney Mill	7500	1/26	20	4.0	5.1	6.0*
White Knob	7700	1/30	16	3.5	4.5	6.7*

LITTLE WOOD RIVER

#Bear Canyon	7920	1/26	27	6.0	5.5	--
Garfield Ranger Station	6554	1/28	19	4.0	4.1	7.9*
Muldoon	6300	1/28	17	3.2	3.0	6.2*
Swede Peak	7650	1/26	32	7.5	5.6	11.5*

BIG WOOD RIVER

#Couch Summit	6950	1/29	36	9.5	7.9	13.8
Galena	7300	1/27	42	11.2	10.0	14.3
Galena Summit	8795	1/27	52	15.0	14.1	16.7
Graham Ranch	6200	1/27	28	6.9	6.0	10.0
#Lost-Wood Divide	7900	1/26	42	11.9	10.0	17.3*
Mascot Mine	7900	1/26	28	6.8	4.4	--
Mount Baldy	9000	1/30	39	11.5	9.0	14.6
Soldier Ranger Station	6100	1/29	26	6.5	4.6	9.9
#Vienna Mine	8960	1/29	72	24.1	23.5	25.4*

BOISE RIVER

Atlanta Summit	7500	1/29	67	20.3	20.5	24.9
Bad Bear	5500	1/27	45	11.8	9.3	10.8*
#Bogus Basin	6120	1/29	54	16.3	17.2	17.3
Bogus Basin Road	5360	1/29	19	6.4	6.8	5.9
Couch Summit	6950	1/29	36	9.5	7.9	13.8
Graham Guard Station	5690	1/29	44	11.6	12.0	--
Jackson Peak	7000	1/29	67	22.8	--	23.7*
Moores Creek Summit	6100	1/27	82	25.6	18.4	23.4

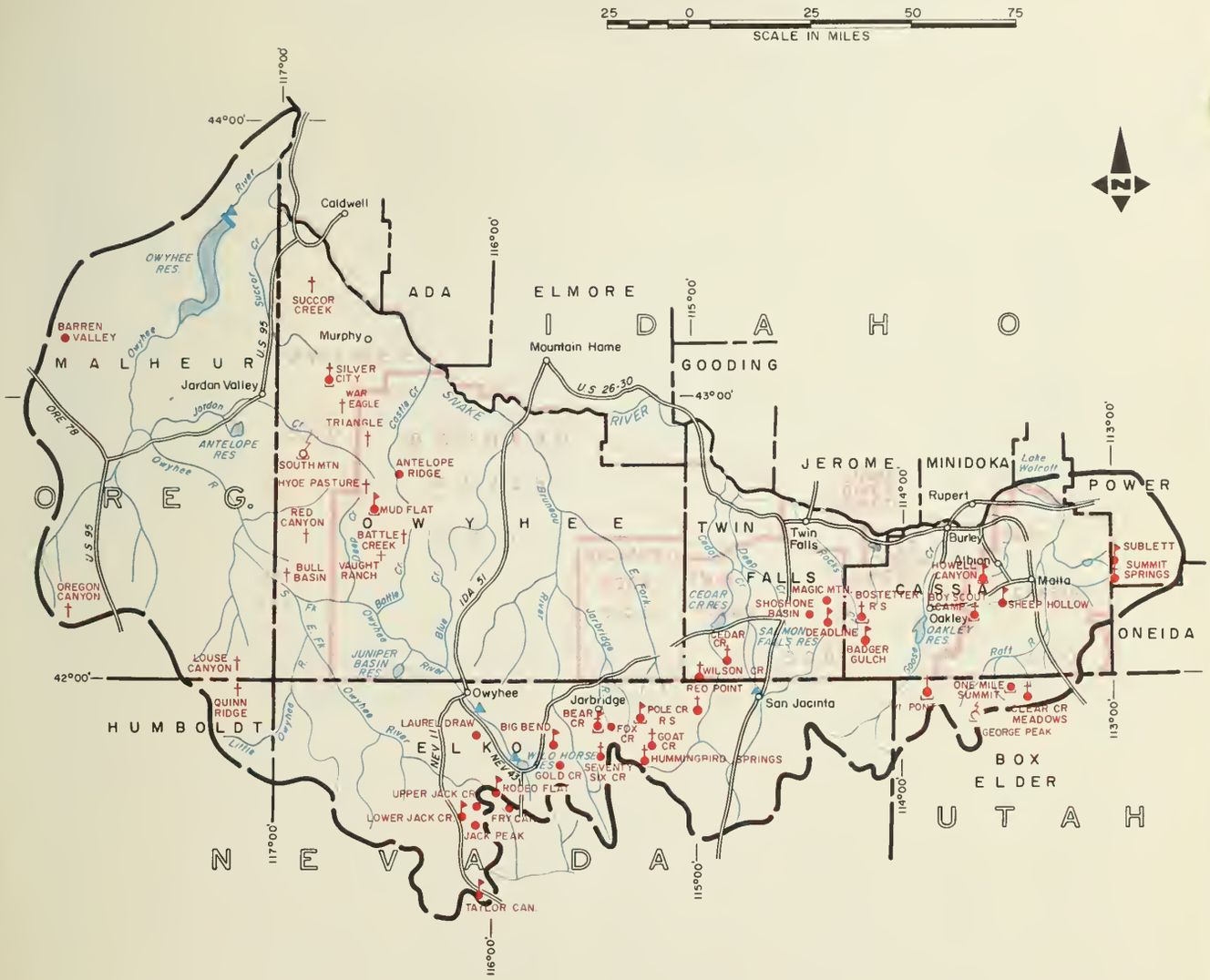
*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
Prairie	4900	1/29	26	7.2	5.0	5.5
#Soldier Ranger Station	6100	1/29	26	6.5	4.6	9.9
Trinity Mountain	7780	1/29	75	25.4	24.7	30.3
#Vienna Mine	8960	1/29	72	24.1	23.5	25.4*
PAYETTE RIVER						
#Big Creek Summit	6600	1/30	78	27.2	22.0	24.9
Bogus Basin	6120	1/29	54	16.3	17.2	17.3
#Brundage Mountain	7560	1/29	90	30.4	24.6	34.7*
Cozy Cove	5400	1/30	37	11.2	--	12.6
Crawford Ranger Station	4800	1/30	16	4.0	6.4	6.8
Deadwood Airstrip	5440	1/30	39	10.7	11.9	11.6
Deadwood Summit	7000	1/30	80	27.5	29.2	33.9*
#Jackson Peak	7000	1/29	67	22.8	--	23.7*
Lake Fork	6000	1/29	45	13.8	11.7	--
Rock Flat Summit	5200	1/29	43	11.8	11.1	12.8
Secesh Summit	6520	1/29	68	24.5	22.6	--
Squaw Meadow	5800	1/29	62	22.8	22.5	25.0*
WEISER RIVER						
Boulder Creek	5500	1/30	45	14.0	14.2	17.9*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N½ 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW CDURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG 1978 M7-OL-22023-3

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)

MIDDLE SNAKE RIVER - SOUTHSIDE

RAFT RIVER							
Howell Canyon		8000	1/30	54	19.3	16.6	17.4
SALMON FALLS CREEK							
#Bear Creek (A)	Nev.	7800	1/31	36	11.6	15.7	13.0
Cedar Creek (A)		7000	1/31	24	6.9	7.9	6.4
Deadline		6900	1/29	45	14.2	15.7	15.6
Goat Creek	Nev.	8800	1/28	34	9.8	11.4	11.4
#Hummingbird Springs (A)	Nev.	8945	1/31	41	12.7	19.5	14.4
Magic Mountain		6700	1/29	40	12.3	13.9	12.3
#Pole Creek R. S.	Nev.	8330	1/28	43	13.4	16.3	12.3
Red Point (A)	Nev.	7940	1/31	9	2.7	4.0	--
Shoshone Basin		5740	1/29	16	5.0	6.8	3.8*
Wilson Creek (A)		7500	1/31	27	7.7	8.6	--
BRUNEAU RIVER							
Bear Creek (A)	Nev.	7800	1/31	36	11.6	15.7	13.0
Hummingbird Springs (A)	Nev.	8945	1/31	41	12.7	19.5	14.4
Pole Creek R. S.	Nev.	8330	1/28	43	13.4	16.3	12.3
#Seventy-six Creek (A)	Nev.	7100	1/31	24	5.8	8.0	7.6
OWYHEE RIVER							
Battle Creek (A)		5700	1/19	4	1.0	3.8	2.8
#Bear Creek (A)	Nev.	7800	1/31	36	11.6	15.7	13.0
Bull Basin (A)		5600	1/19	6	1.5	3.8	1.0*
Hyde Pasture (A)		5800	1/19	8	2.0	3.8	4.2
Red Canyon (A)		6650	1/19	18	5.0	7.7	5.4*
#Seventy-six Creek (A)	Nev.	7100	1/31	24	5.8	8.0	7.6
Silver City		6400	1/30	32	9.1	13.0	11.1*
South Mountain		6340	1/31	25	8.0	10.0	9.0
Succor Creek (A)		6100	1/19	13	3.6	4.2	4.2*
Triangle (A)		5150	1/19	T	T	--	0.9
Vaught Ranch (A)		5950	1/19	3	0.6	5.4	2.8*
War Eagle (A)		7700	1/19	69	22.1	14.7	17.7*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	1/30	24	6.3	5.7	7.4
Kilgore		6200	1/28	28	7.9	7.9	7.9
HENRYS FORK RIVER							
Big Springs		6400	1/29	50	15.3	10.5	14.4
Grassy Lake	Wyo.	7230	1/29	97	34.4	21.8	23.2
Island Park		6315	1/29	44	12.9	9.2	11.6
Sawtell Mountain		8720	1/29	64	22.2	12.9	26.1*
Targhee Pass		7000	1/29	39	11.1	6.9	12.0*
Valley View		6500	1/29	40	12.0	7.7	12.3
White Elephant		7700	1/29	54	18.6	10.0	--
TETON RIVER							
Darby Canyon	Wyo.	8250		Delayed		13.1	--
Freds Mountain	Wyo.	8150	2/2	68	23.0	13.2	--
Garns Mountain		8300		Delayed		19.6	--
Indian Meadows	Wyo.	8240		Delayed		19.0	--
Jackpine Creek	Wyo.	7350		Delayed		13.3	--
McRenolds Reservoir		6800		Delayed		12.6	--
Miles Creek	Wyo.	7300		Delayed		8.0	--
Phillips Bench	Wyo.	8200	1/26	68	22.8	16.7	--
Pine Creek Pass		6750	2/2	51	16.3	10.0	11.5*
State Line		6650	2/2	40	12.8	8.3	9.9
Teton Pass W.S.	Wyo.	8400	1/26	64	23.0	13.8	--
WILLOW CREEK							
Aspen Grove		6600	2/1	34	10.0	8.2	8.1*
Birch Creek		6800	2/1	27	8.3	5.7	7.5*
Blue Ridge		6800	2/1	40	13.2	10.7	--
Bone		6200	2/1	22	6.4	3.4	6.2*
Brockman Station		6430	2/1	27	8.5	5.4	--
Hell Creek		7100	2/1	38	12.5	7.9	--
Mud Creek		7150	2/1	34	11.0	10.4	--
Sheep Mountain		6510	2/1	39	11.6	5.6	10.0*
Tex Creek		6700	2/1	29	8.6	5.6	6.2*
SAND CREEK							
Henry Creek		5650	2/1	13	3.5	4.3	3.1*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

UPPER SNAKE RIVER BASIN

INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11E9	I	Big Springs	34	14N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	29	13N	43E	6315
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6500
11E36	I	White Elephant	17	14N	43E	7700

TETON RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400

CAMAS - BEAVER CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11F10	I	Aspen Grove	35	2N	41E	6600
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	33	2S	41E	6510
11F5R	I	Tex Creek	6	1S	42E	6700

SAND CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11F6	I	Henry Creek	7	1S	39E	5650

BLACKFOOT RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250

PORTNEUF RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
12G5	I	Dempsey Creek	17	10S	38E	6280
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG 1973 M7-OL-22023-4

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	1/29	22	6.2	5.0	6.0
Slug Creek Divide	7225	1/27	41	12.0	11.6	11.5*
Somsen Ranch	7000	1/29	38	11.4	10.5	9.2
Ten Mile Pass	6250	1/30	18	4.9	--	--
PORTNEUF RIVER						
Dempsey Creek	6280	1/28	33	8.6	9.7	7.9
Lower Pebble	5800	1/28	35	10.0	6.7	9.3*
Mink Creek	6300	1/30	44	14.4	14.1	11.6*
Pebble Creek	6550	1/28	35	9.7	10.5	11.0

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation ‡Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	1/26	55	15.0	16.5	17.0*
Emigration Canyon	6500	1/26	25	6.9	7.8	7.8*
Montpelier Creek						
Giveout	6840	1/27	34	8.4	7.4	8.7*
Little Beaver	6970	1/26	38	10.7	9.8	10.9*
Lower Home Canyon	7500	1/28	33	10.3	9.2	--
Montpelier Creek	6570	1/27	20	4.4	4.8	6.0*
Upper Home Canyon	8500	1/28	55	17.1	15.3	--
Whiskey Flat	6985	1/26	21	5.2	4.8	6.9*
Mink Creek						
Christensen Ranch	5600	1/26	26	6.1	6.7	5.9
Dry Basin	7900	1/26	56	16.7	18.1	20.9*
#Emigrant Summit	7350	1/26	55	15.0	16.5	17.0*
Horseshoe Basin	8000	1/26	48	14.7	16.7	17.3*
Liberty Spring	8600	1/26	74	24.4	23.7	22.6*
Strawberry Creek	5800	1/27	25	6.6	7.8	7.2
Strawberry Mink Divide	6800	1/26	42	12.3	14.7	14.4
Cub River						
Cub River R. S.	5400	1/26	29	7.7	8.2	5.8
#Franklin Basin	8000	1/26	56	17.6	17.5	--
Willow Flat	6100	1/26	39	10.7	11.9	10.5

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

GREAT BASIN

25 0 25 50
SCALE IN MILES
I D A H O
U T A H
W Y O M I N G
CASSIA
POWER
BANNOCK
CARIBOU
ONEIDA
FRANKLIN
BEAR LAKE
LINCOLN
UINTA
SUMMIT
Sodo Spring
Montpelier
Genevo
Border
Preston
Garden City
Loketown
Nugget
Soge
Randolph
Woodruff
Almy
Evanston
Castle Rock
Molad City
SUMMIT SPRINGS
DANIELS CREEK
CLIFF CANYON
UPPER ELKHORN
LOWER ELKHORN
DRY CREEK FLAT
OXFORD MTN
CUB RIVER R S
WORM Cr
WILLOW FLAT
FRANKLIN BASIN
HORSESHOE BASIN
CHRISTENSEN RANCH
STRAWBERRY CR
STRAWBERRY
MINK DIVIDE
EMIGRANT SUMMIT
EMIGRANT CANYON
LIBERTY SPRING
ORY BASIN
SLUG CREEK DIVIDE
SALT RIVER SUMMIT
CCC CAMP
LITTLE BEAVER
UPPER HOME CANYON
WHISKEY FLAT
GIVEOUT
LOWER HOME CANYON
MONTPELIER CR
PINEY LABARGE
BIG PARK
KELLY R S.
GARDEN CITY SUMMIT
MONTE CHRISTO R S
ORY BREAD POND
BURT'S-MILLER RANCH
CHALK CREEK NO.3
CHALK CREEK NO.2
CHALK CREEK NO.1
WHITNEY G S
STILLWATER CAMP
HAYDEN FORK
TRIAL LAKE
Bear Lake
Bear River
U.S. 30N
U.S. 191
U.S. 30S
113°00'
112°00'
111°00'
42°
42°00'
41°00'
LEGEND
Watershed Boundary
Soil Conservation District Bdry
County Boundary
Forecast Point
Snow Course
Snow Course and Snow Pressure Pillow
Snow Pressure Pillow
Aerial Snow Depth Gage
Soil Moisture Station
Temperature Gage
Precipitation Gage
Radio Telemetry
WATERSHED LOCATIONS
I
II
III
IV
V
N

INDEX to SNOW COURSES

GREAT BASIN

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800
		CUB RIVER				
11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA-SCS-PORTLAND, OREG. 1970 M7-OL-22023-5

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	PROFILE (Inches) CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SALMON RIVER							
Mill Creek Summit	8870	48	9.4	1/28	4.3	Frozen	--
LITTLE LOST RIVER							
Fairview Guard Station	5850	42	7.6	1/28	7.8	--	8.3
Wet Creek Summit	8175	48	17.1	1/29	13.0	--	13.6
BIG WOOD RIVER							
Galena	7300	48	10.1	1/27	7.0	--	--
Galena Summit	8795	48	5.8	1/27	1.6	--	1.7
BOISE RIVER							
Bogus Basin Road	4830	48	7.1	1/29	5.7	5.7	--
RAFT RIVER							
Howell Canyon	8000	48	11.5	1/30	9.0	5.5	8.7
SALMON FALLS CREEK							
Deadline	6900	36	7.4	1/29	5.6	5.6	6.7
Patrick Ranch	5720	36	7.7	1/28	7.0	--	5.2
Pole Creek R. S.	8330	48	9.7	1/28	8.2	6.9	8.0
BEAR RIVER							
Emigrant Summit	7350	36	8.2	1/26	5.4	--	6.7
Strawberry Creek	5800	48	12.7	1/27	7.8	--	10.3
Montpelier Creek							
Giveout Pass	7025	36	9.4	1/26	5.1	--	8.0
Jenson Ranch	6580	48	18.7	1/27	14.6	--	12.4

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Mantana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Campany
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

1.573
36W1

WATER SUPPLY OUTLOOK FOR IDAHO

THE LIBRARY OF THE
MAR 23 197
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

AS OF
MAR. 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
S"S PHOTO AZ-546

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

U.S. DEPARTMENT of AGRICULTURE
CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY
SOIL CONSERVATION SERVICE

USDA SCS-PORTLAND, OREG 1979

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

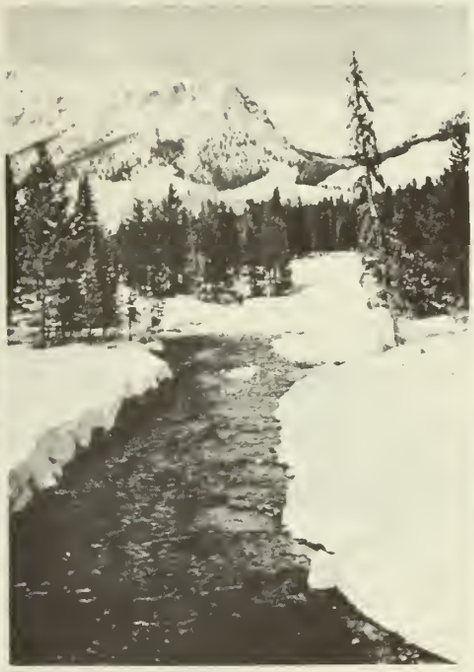
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
and
MARION O. CARSTENS, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MARCH 1, 1976

In general, water supplies for irrigation and other purposes are forecast to be adequate for the 1976 runoff season. Some late season shortages might occur on streams without storage facilities and some smaller streams in the arid portions of the state. Streamflow forecasts range from a low of 64% of average for the Little Wood River drainage to a high of 120% of normal on the Teton watershed.

Stored water in the irrigation reservoirs is well above average and can be used to supplement the below to near normal runoff forecasts and fulfill irrigation demands.

In general the snowpack improved in relation to normal during February, however not significantly. Snow-water equivalent on the mountainous watersheds ranges from a low of 67% of average on the Big Lost and Little Wood Rivers to a high of 141% of normal on the Teton River drainage.

Streamflows continued above normal in most drainage basins in the state, however all streams remained below flood stage throughout the month.

Precipitation during February was heaviest across the southern and southeastern portions of the state. Widely scattered reporting points in the more mountainous regions of central Idaho show wide variability. Temperatures were generally near normal across the district through the month of February.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8900	98	Apr-Sep	8093	9073
		7900	99	Apr-Jul	6846	7957
		6350	99	Apr-Jun	5298	6431
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	15400	109	Apr-Sep	--	14336
		14100	110	Apr-Jul	--	13086
		11900	107	Apr-Jun	--	11325
Priest River						
Priest River 1/	(nr)	700	80	Apr-Jul	--	879
SPOKANE RIVER						
Post Falls 2/	(at)	3350	111	Apr-Sep	--	3008
St. Joe River						
Calder	(at)	1480	110	Apr-Sep	--	1345
		1430	112	Apr-Jul	--	1277
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(nr)	1080	126	Apr-Sep	938	858
Palisades Inflow 3/		4450	121	Apr-Sep	4202	3714
Heise 4/	(nr)	4700	119	Apr-Sep	4494	3946
Blackfoot 5/	(nr)	5000	120	Apr-Jul	--	4173
Weiser	(at)	7050	108	Apr-Sep	--	6524
Henrys Fork						
Ashton 6/	(nr)	775	115	Apr-Sep	--	671
Rexburg 7/	(nr)	1610	118	Apr-Sep	--	1364
Teton River						
St. Anthony	(nr)	530	120	Apr-Sep	--	442

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

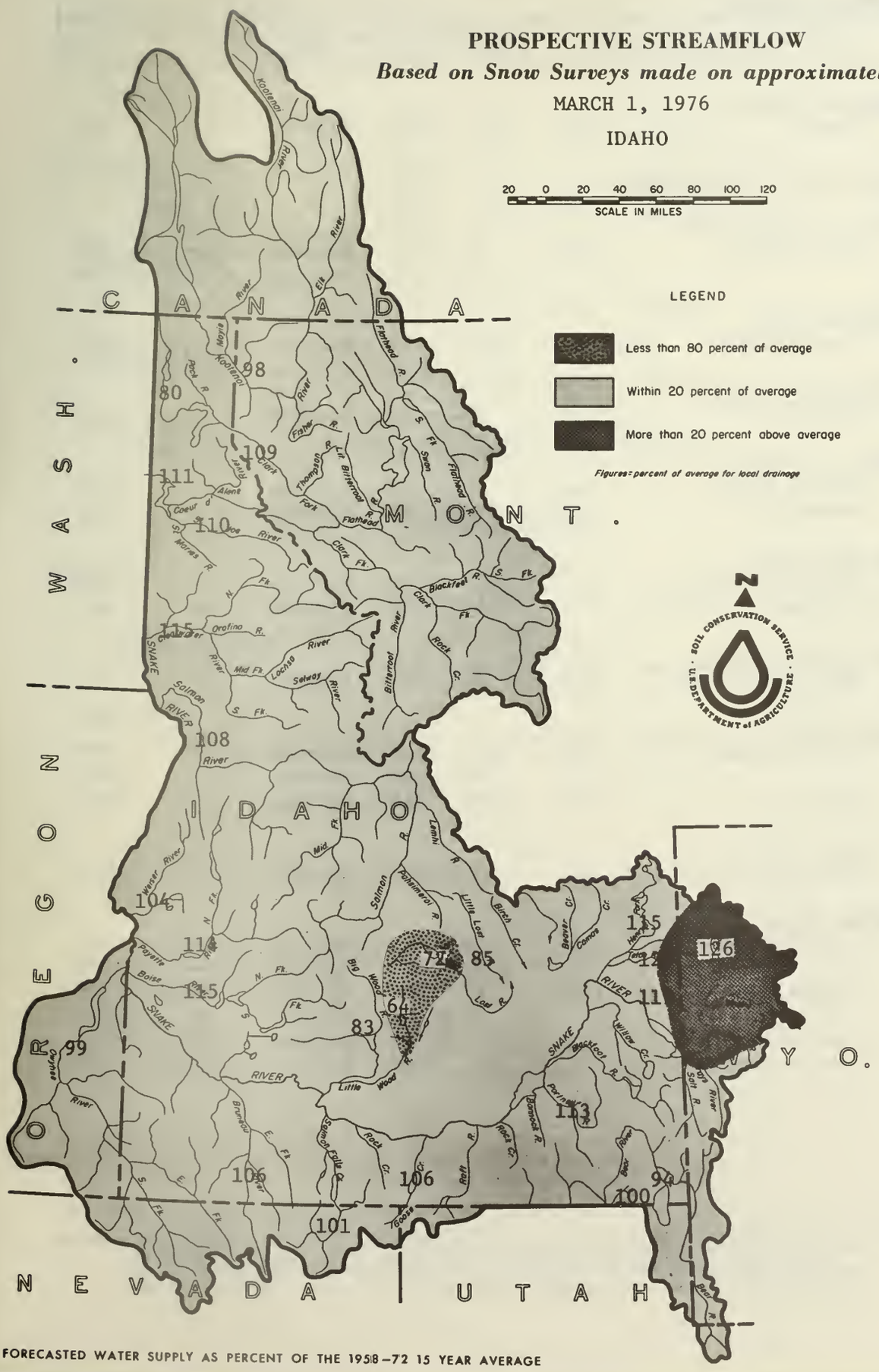
+ 1958-1972 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1, 1976

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958–72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Portneuf River						
Topaz	(at)	105	113	Mar-Sep	--	93
Oakley Reservoir Inflow		31	106	Mar-Sep	--	29.5
Salmon Falls Creek						
San Jacinto	(nr)	85	101	Mar-Sep	--	84
		82	102	Mar-Jul	--	80
Bruneau River						
Hot Springs	(nr)	240	106	Mar-Sep	--	226
Little Lost River						
Howe	(nr)	35	85	Apr-Sep	--	41
Big Lost River						
Howell Ranch	(at)	150	72	Apr-Sep	--	208
Mackay 1/	(nr)	124	68	Apr-Sep	--	183
Big Wood River						
Magic Reservoir		250	83	Apr-Sep	--	301
Inflow 2/		260	84	Mar-Jul	--	310
Little Wood River						
High Five Creek	(ab)	60	64	Apr-Sep	--	94
Boise River						
Twin Springs	(nr)	830	115	Apr-Sep	--	720
		770	116	Apr-Jul	--	665
Boise 3/	(nr)	1850	115	Apr-Sep	--	1612
South Fork						
Anderson Dam 4/	(at)	690	114	Apr-Sep	--	603
Owyhee River						
Gold Cr., Nev. 5/	(nr)	19	105	Apr-Jul	43	18
		24	104	Mar-Jul	--	23
Owyhee, Nev. 5/	(nr)	69	101	Apr-Jul	144	68
		82	101	Mar-Jul	--	81
Lake Owyhee		328	99	Apr-Sep	917	332
net inflow 6/		452	105	Mar-Jul	1072	431

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

+ 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	2110	114	Apr-Sep	--	1850
North Fork						
Cascade 3/	(at)	635	113	Apr-Sep	--	562
Banks 3/	(nr)	830	114	Apr-Sep	--	730
Weiser River						
Weiser ab. Crane Creek 4/		530	104	Mar-Sep	--	511
Salmon River						
Whitebird	(at)	7500	108	Apr-Sep	--	6959
Clearwater River						
Spalding	(at)	9900	115	Apr-Sep	--	8605
GREAT BASIN						
BEAR RIVER						
Harer	(at)	280	94	Apr-Sep	--	297
Montpelier Creek						
Montpelier	(nr)	14.5	117	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	50	100	Apr-Sep	--	50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4 Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

COMPARISON of SNOW COVER

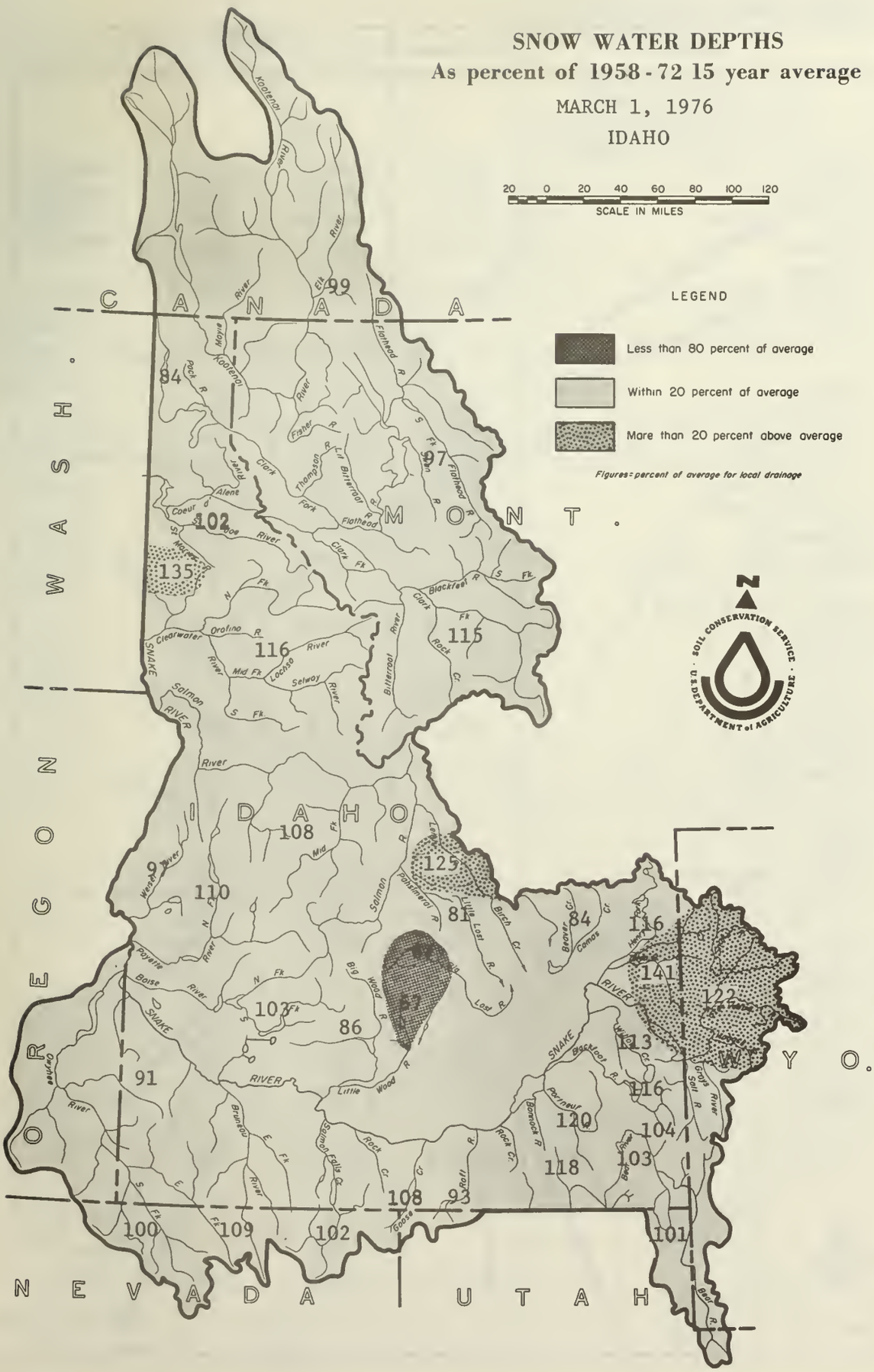
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	27	93	99
Pend Oreille River	78	102	107
Clark Fork River	49	106	115
Flathead River	29	97	97
Priest River	4	56	84
Spokane River	8	95	102
LOWER SNAKE RIVER BASIN			
Palouse River	5	86	135
Clearwater River	9	106	116
Salmon River	13	105	108
Lemhi River	5	135	125
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	92	81
Big Lost River	7	79	67
Fish Creek	2	85	93
Little Wood River	4	77	67
Big Wood River	10	89	86
Boise River	13	97	103
Payette River	12	98	110
Weiser River	2	86	97
Mann Creek	4	69	--
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	7	84	93
Goose-Trapper Creeks	3	99	108
Salmon Falls Creek	10	85	102
Bruneau River	5	83	109
Owyhee River	5	60	100
Jordan Creek	6	74	91
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	28	128	122
Camas-Beaver Creeks	2	70	84
Henrys Fork River	10-11	122	116
Teton River	2-11	133	141
Willow Creek	5-9	108	113
Blackfoot River	3-4	114	116
Portneuf River	4	99	120
GREAT BASIN			
Bear River	29	98	101
Montpelier Creek	4	103	104
Mink Creek	7	99	103
Cub River	2-3	100	136
Malad River	4-6	97	118

SNOW WATER DEPTHS

As percent of 1958 - 72 15 year average

MARCH 1, 1976

IDAHO



RESERVOIR STORAGE (1,000 Ac. Ft.)

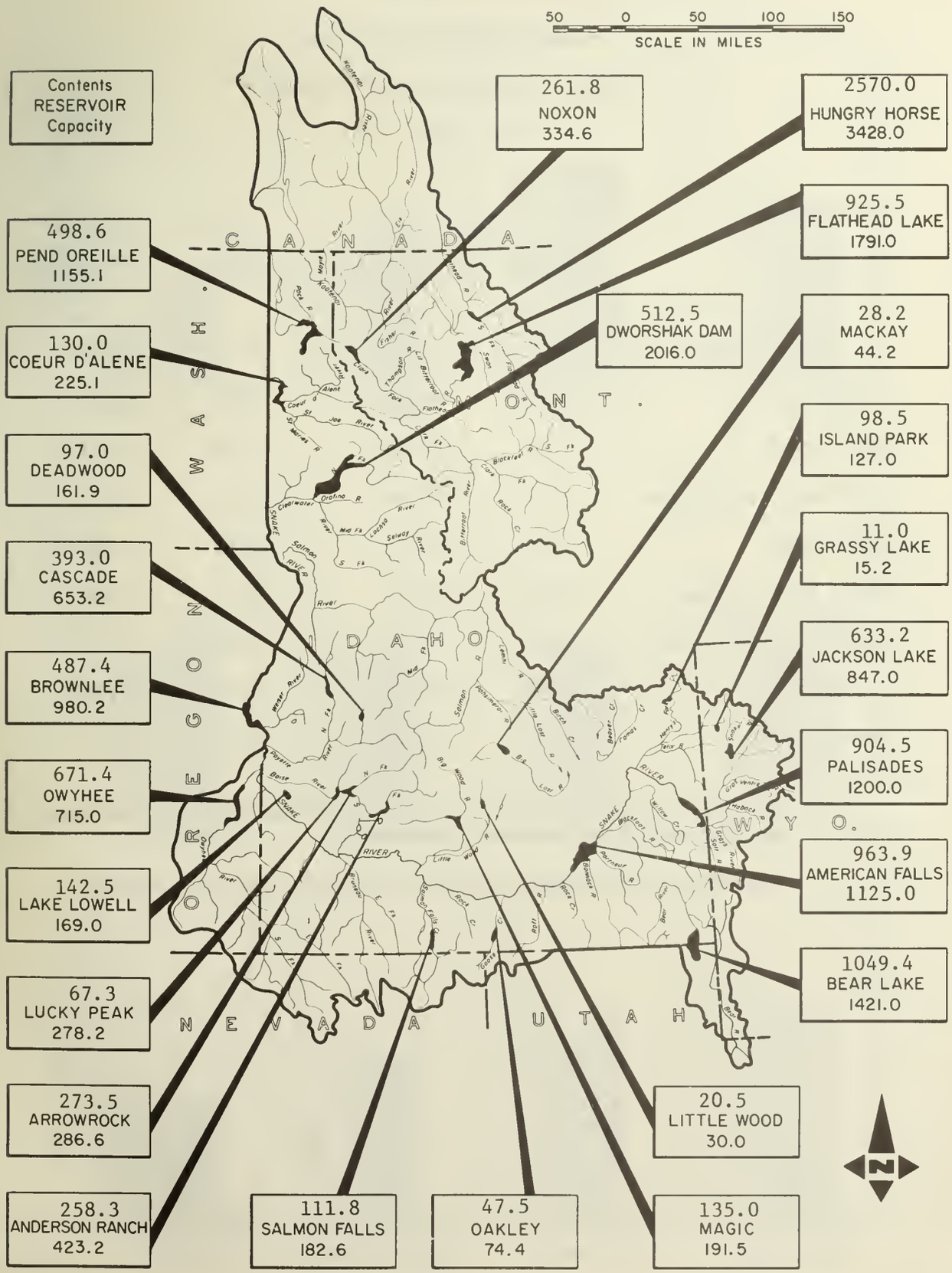
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2570.0	1912.0	2329.0
Flathead	1791.0	925.5	816.1	1009.0
Pend Oreille	1155.1	498.6	177.7	457.0
Noxon	334.6	261.8	309.7	300.6
Spokane				
Coeur d'Alene	225.1	130.0	58.9	162.3
SNAKE BASIN				
Snake				
Jackson Lake	847.0	633.2	624.4	533.3
Palisades	1200.0	904.5	966.3	809.0
American Falls	1125.0	963.9	1060.4	789.1
Island Park	127.0	98.5	115.7	113.5
Grassy Lake	15.2	11.0	10.9	10.3
Brownlee	980.2	487.4	502.2	451.1*
Goose-Trapper Creeks				
Oakley	74.4	47.5	44.2	19.3
Salmon Falls Creek				
Salmon Falls	182.6	111.8	62.9	34.5
Big Lost				
Mackay	44.2	28.2	27.8	31.9
Big Wood				
Magic	191.5	135.0	113.4	103.5
Little Wood				
Little Wood	30.0	20.5	15.2	15.5
Fish Creek				
Carey Valley	14.4	7.0	5.3	--
Boise				
Anderson Ranch	423.2	258.3	270.3	237.6
Arrowrock	286.6	273.5	279.9	247.9
Lucky Peak	278.2	67.3	101.6	89.2
Lake Lowell (Deer Flat)	169.0	142.5	116.8	132.0
Owyhee				
Owyhee	715.0	671.4	467.4	451.2
Payette				
Cascade	653.2	393.0	348.5	325.9
Deadwood	161.9	97.0	87.2	78.8
Weiser				
Mann Creek	11.1	6.2	3.8	--
Clearwater				
Dworshak	2016.0	512.5	436.1	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1049.4	1087.5	958.3

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

March 1, 1976



VALLEY PRECIPITATION 1/

Divison Averages and Departures

In Inches

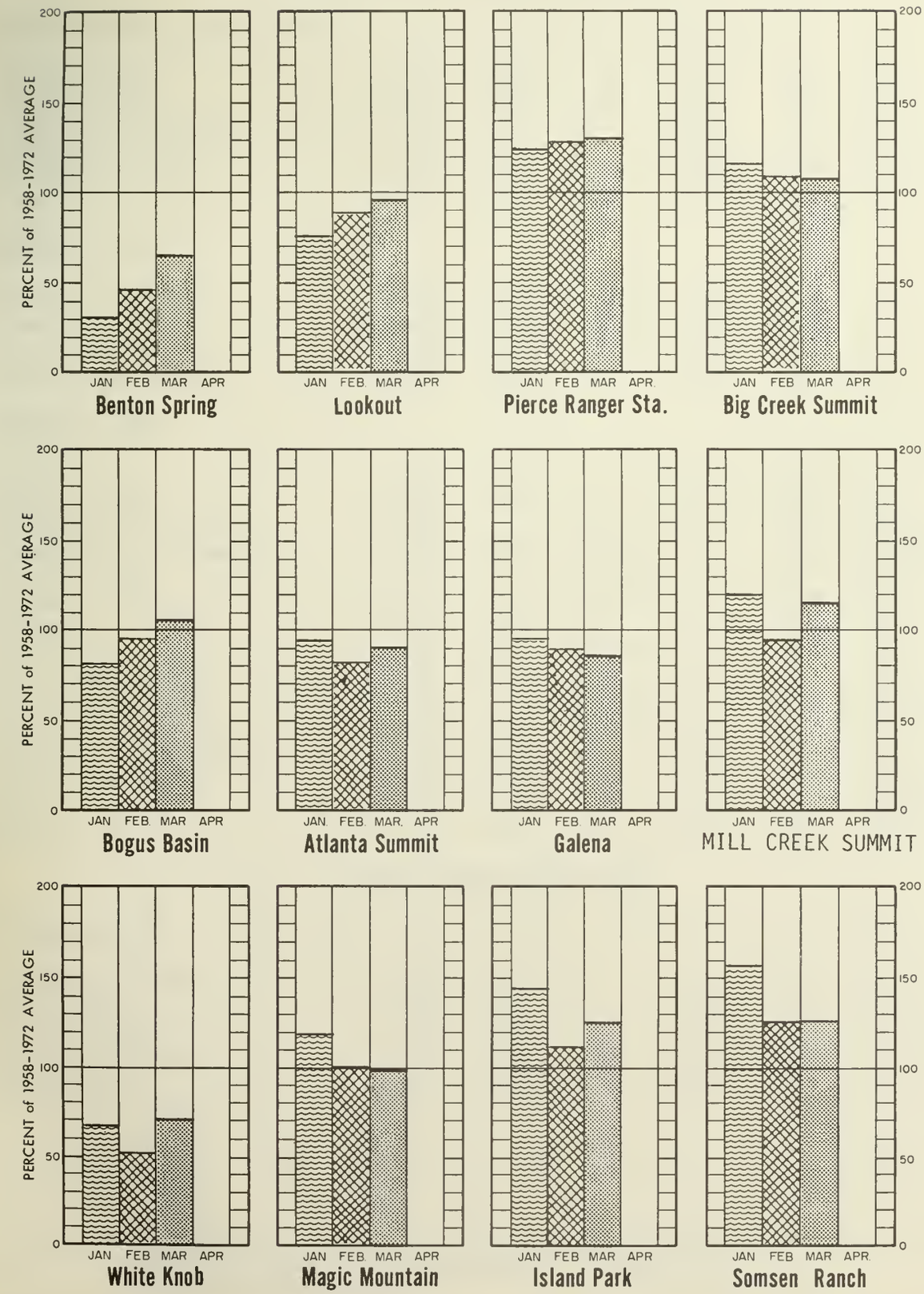
DRAINAGE DIVISIONS	Winter February 1976		Fall - Winter Nov. 75 - Feb. 76	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	3.00	+0.98	13.07	+0.80
Flathead	2.46	+0.66	8.33	-1.20
Clark Fork	0.94	+0.19	3.95	-0.25
Pend Oreille-Spokane	3.54	+0.46	15.52	-0.49
Upper Snake	2.61	+0.76	9.65	+1.06
Snake River Plain	0.95	+0.19	3.54	-0.60
Salmon-Payette-Boise	2.31	+0.48	9.86	-0.42
Clearwater	2.92	+0.43	15.74	+2.93
Owyhee-Malheur	1.02	+0.14	3.32	-1.45

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

MARCH 1, 1976



SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b/
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	2/24	18	4.6	8.6	6.1
Benton Spring	4900	2/23	38	11.2	21.4	17.4
#Mosquito Ridge (A)	5110	3/2	107	33.8	36.0	34.7*
#Mosquito Ridge (SP)	5110	3/2	--	31.2	--	--
Schweitzer Bowl	4500	3/2	77	20.8	45.6	27.8*
Schweitzer Ridge	6100	3/2	118	40.0	60.2	39.9*
HAYDEN LAKE						
Chilco Ridge	3650	2/25	33	9.2	11.6	--
Conie Ridge	3900	2/25	33	10.4	11.9	--
Corner Creek	3150	2/25	32	9.4	11.6	--
Sage Creek Saddle	4100	2/25	64	18.0	17.5	--
SPOKANE RIVER						
Above Burke	4100	2/24	80	22.6	25.9	--
Copper Ridge	4800	2/26	71	25.3	28.7	25.7
#Forty-nine Meadows	4880		Delayed		25.8	28.4*
Fourth of July Summit	3200	2/27	39	11.4	14.6	7.3*
Granite Peak	6000		Delayed		34.4	37.7*
Kellogg Peak (A)	5560	3/2	90	28.8	29.8	--
Lookout	5120	2/24	102	31.2	30.4	32.4
#Lost Lake	6000		Delayed		45.6	51.3*
Lower Sands Creek	3400	2/26	59	17.8	18.5	17.5
Medicine Ridge	5920		Delayed		35.8	38.5*
Mosquito Ridge (A)	5110	3/2	107	33.8	36.0	34.7*
Mosquito Ridge (SP)	5110	3/2	--	31.2	--	--
Roland Summit (A)	5200	3/2	102	31.6	31.0	31.3*
Sherwin	3200	2/26	59	15.8	19.2	13.8*
Sunset (A)	5600	3/2	131	32.7	30.7	33.7*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	2/27	42	11.9	13.5	7.8*
East Twin	4050	2/27	47	14.2	14.9	11.1
Howard Creek	3500	2/27	29	8.0	10.2	4.5*
Moscow Mountain	4400	2/27	68	18.7	21.7	15.3
West Twin	4250	2/27	43	12.2	15.6	9.4

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
CLEARWATER RIVER							
Cayuse Airstrip		3700		Delayed		13.6	11.7
Coolwater Mountain (SP)		6200	3/1	--	28.2	24.6	--
Cottonwood Butte		5140	2/27	55	14.7	12.7	--
Crater Meadows		6100		Delayed		37.8	40.9*
Crooked Fork		3600	2/26	58	15.5	16.1	12.9*
Elk Butte		5550		Delayed		33.3	35.0*
Fish Lake Airstrip		5000	3/5	133	38.8	35.3	37.3
Forty-nine Meadows		4880		Delayed		25.8	28.4*
Goat Lake		6600		Delayed		38.6	43.8*
#Granite Peak		6000		Delayed		34.4	37.7*
Hemlock Butte		5500		Delayed		42.8	42.8*
#Hoodoo Basin	Mont.	6000	3/2	152	48.6	46.9	46.1
#Hoodoo Basin (SP)	Mont.	6000	3/1	--	47.2	42.6	--
#Hoodoo Creek	Mont.	5900	3/2	143	45.5	43.5	43.2
Lolo Pass		5240	2/26	112	32.9	28.7	28.5
Lost Lake		6000		Delayed		45.6	51.3*
Lower Snowhaven		5300	3/1	75	22.1	18.7	--
#Medicine Ridge		5920		Delayed		35.8	38.5*
#Nez Perce Pass	Mont.	6575	2/22	60	20.3	21.1	14.3
Pierce Ranger Station		3170	3/1	44	13.4	15.7	10.3
Powell Ranger Station		3400	2/29	52	15.2	15.7	12.6*
Savage Pass		6170	2/29	97	30.9	24.2	20.5
Shanghai Summit		4600		Delayed		26.6	24.5*
Upper Snowhaven		5600	3/1	62	20.3	17.5	--
SALMON RIVER							
Big Creek Summit		6600	2/26	102	34.0	34.1	31.4
Borah (A)		8250	3/3	25	6.6	--	--
#Boulder Creek		5500	2/27	69	21.6	24.4	21.8*
Brundage Mountain		7560	2/26	123	43.2	40.2	42.2*
#Deadwood Summit		7000	3/4	120	41.6	39.9	40.4*
Doublespring Pass (A)		8400	3/3	41	8.1	--	--
#Galena Summit		8795	2/25	66	18.9	21.6	20.6
#Gibbons Pass	Mont.	7100	2/24	68	24.1	24.9	20.5
Leatherman Pass		9800	3/3	63	20.1	--	--
#Lemhi Pass	Mont.	7480	2/22	38	11.2	--	--
#Lemhi Ridge	Mont.	8100	2/22	44	13.6	--	--
Mill Creek Summit		8870	3/3	79	23.2	19.2	20.3*
Moose Creek		6200	3/1	66	18.6	17.2	15.2
Morgan Creek		7580	3/3	60	14.9	14.8	12.6*
Redfish Lake Flat		6570	3/1	54	12.9	--	--
#Rock Flat Summit		5200	2/26	62	17.2	17.3	16.2
#Secesh Summit		6520	2/27	97	32.3	34.2	--
#Squaw Meadow		5800	2/27	97	32.3	34.8	31.1*
Twin Peaks (A)		10300	3/3	89	26.2	22.1	--
Vienna Mine		8960	2/23	84	27.8	29.9	32.2
Williams Creek Summit		7800	2/27	51	14.8	11.4	11.0

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
Lemhi River						
Above Gilmore	8200	3/3	36	9.5	6.0	8.6*
Aspen-Hall Pass (A)	8110	3/3	48	12.8	9.1	7.7*
Copes Camp	7500	3/3	41	8.6	6.9	6.6*
Hall Creek	7560	3/3	29	6.0	4.5	4.8*
Meadow Lake	9100	3/3	60	17.2	14.1	17.1*
Schwartz Lake	8500	3/3	58	15.6	11.0	11.0*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b/
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	2/25	22	4.0	4.5	4.5
Lost Garfield	6600	2/25	20	4.0	4.3	3.8
Moonshine	7450	2/25	36	8.6	9.0	9.8
Sawmill Canyon	6900	2/25	28	5.8	6.6	7.4
Wet Creek Summit	7600	2/26	36	7.0	7.6	10.9
BIG LOST RIVER						
Bear Canyon	7920	2/23	38	8.8	12.2	16.3
Copper Basin	7650	2/23	18	5.2	7.2	8.6
Fishpole Lake	9350	2/23	41	11.0	14.0	--
Iron Bog	7650	2/27	45	9.2	10.4	13.8*
Leadbelt	6800	2/27	26	5.2	7.1	9.0*
#Leatherman Pass	9800	3/3	63	20.1	--	--
Lost-Wood Divide	7900	2/23	60	16.3	17.5	20.5
Stickney Mill	7500	2/23	30	6.3	8.6	8.4
White Knob	7700	3/1	30	5.9	9.0	8.4*
FISH CREEK						
Iron Mine Creek	6370	3/1	39	9.2	10.2	9.7
Telfer Ranch	6000	3/1	31	7.0	8.9	7.7
LITTLE WOOD RIVER						
#Bear Canyon	7920	2/23	38	8.8	12.2	16.3
Garfield Ranger Station	6554	2/26	34	7.4	10.0	10.0
Muldoon	6300	2/26	30	5.9	7.6	7.8
Swede Peak	7650	2/27	49	11.3	13.8	15.4
BIG WOOD RIVER						
#Couch Summit	6950	3/2	60	16.0	16.8	16.9*
Dollarhide Summit	8620	2/23	59	17.8	19.9	20.7
Galena	7300	2/25	58	14.7	18.4	17.2
Galena Summit	8795	2/25	66	18.9	21.6	20.6
Graham Ranch	6200	2/25	41	9.6	12.2	12.4
#Lost-Wood Divide	7900	2/23	60	16.3	17.5	20.5
Mascot Mine	7900	2/23	38	9.5	9.7	12.1
Mount Baldy	9000	2/27	57	15.2	17.0	18.0
Soldier Ranger Station	6100	3/2	40	10.7	12.0	11.2
#Vienna Mine	8960	2/23	84	27.8	29.9	32.2

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
BOISE RIVER						
Atlanta Summit (SP)	7500	3/1	--	24.2	27.5	27.2*
Bad Bear	5500	3/2	57	17.0	15.0	13.1*
#Bogus Basin	6120	3/3	65	21.7	22.0	20.7
Bogus Basin Road	5360	3/3	23	8.2	7.4	5.4
Couch Summit	6950	3/2	60	16.0	16.8	16.9*
Deadman Gulch	5600	2/28	54	17.0	--	14.0*
#Dollarhide Summit	8620	2/23	59	17.8	19.9	20.7
Graham Guard Station	5690	2/27	58	16.8	18.4	--
Jackson Peak	7000	2/27	86	28.2	27.8	27.2*
#Little Camas Flat	4950	3/2	30	8.9	--	--
Moores Creek Summit	6100	3/2	104	35.8	29.5	28.5
Prairie	4900	2/26	33	9.5	9.3	5.3
#Soldier Ranger Station	6100	3/2	40	10.7	12.0	11.2
Trinity Mountain	7780	2/27	96	33.5	38.7	37.8
#Vienna Mine	8960	2/23	84	27.8	29.9	32.2
PAYETTE RIVER						
#Big Creek Summit	6600	2/26	102	34.0	34.1	31.4
Bogus Basin	6120	3/3	65	21.7	22.0	20.7
#Brundage Mountain	7560	2/26	123	43.2	40.2	42.2*
Crawford Ranger Station	4800	2/26	24	7.4	10.0	7.7
#Deadman Gulch	5600	2/28	54	17.0	--	14.0*
Deadwood Airstrip	5440	2/27	51	14.1	16.7	14.5
Deadwood Summit	7000	3/4	120	41.6	39.9	40.4*
High Valley Summit	5170	2/28	49	14.8	14.4	10.3*
#Jackson Peak	7000	2/27	86	28.2	27.8	27.2*
Lake Fork	6000	2/27	57	17.2	18.3	14.1*
Rock Flat Summit	5200	2/26	62	17.2	17.3	16.2
Secesh Summit	6520	2/27	97	32.3	34.2	--
Squaw Meadow	5800	2/27	97	32.3	34.8	31.1*
Tripod Summit	5200	2/28	66	21.4	20.5	15.8*
WEISER RIVER						
Boulder Creek	5500	2/27	69	21.6	24.4	21.8*
Placer Creek	6000	3/1	59	14.8	17.7	15.9*
MANN CREEK						
Mann Creek	6080	2/27	61	17.5	24.3	--
Robinson Creek Ridge	6220	2/27	44	12.6	23.2	--
Sturgill Ridge	6800	2/27	69	19.8	26.9	--
Thorson Cabin	5320	2/27	45	12.9	16.0	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

MIDDLE SNAKE RIVER - SOUTHSIDE

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
RAFT RIVER							
Boy Scout Camp		7760	2/26	37	11.0	11.8	13.2*
Clear Creek Meadows	Utah	9050	2/26	45	14.4	21.8	18.2*
George Peak		9000	2/26	56	18.8	32.2	--
Howell Canyon		8000	2/26	66	23.1	24.3	22.2
One Mile Summit	Utah	7330	2/26	17	4.0	6.9	6.8*
Sheep Hollow		6200	2/26	21	5.9	5.3	5.6*
Sublett		6000	2/26	38	10.3	12.5	9.9
Summit Springs		6400	2/26	37	11.0	12.6	9.7*
GOOSE CREEK							
Badger Gulch		6660	2/26	37	10.9	12.6	10.1
Bostetter Ranger Station		7500	2/26	56	17.2	17.8	17.5
Vi Pont		7670	2/26	47	15.5	13.5	12.7*
SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	3/4	62	18.8	24.3	17.3
Cedar Creek		7000	3/2	35	8.5	10.9	8.8
Deadline		6900	2/27	56	19.4	21.3	19.9
#Fox Creek	Nev.	6800	3/4	37	10.4	14.6	9.3
Goat Creek	Nev.	8800	3/4	53	14.7	16.4	16.0
#Hummingbird Springs	Nev.	8945	3/4	70	19.4	20.0	19.5
Magic Mountain		6700	2/27	52	16.0	18.6	16.2
#Pole Creek R. S.	Nev.	8330	3/4	62	18.8	21.4	16.8
Shoshone Basin		5740	2/27	23	7.8	8.4	4.2
Wilson Creek		7500	3/4	34	8.8	12.5	11.4*
BRUNEAU RIVER							
Bear Creek	Nev.	7800	3/4	62	18.8	24.3	17.3
Fox Creek	Nev.	6800	3/4	37	10.4	14.6	9.3
Hummingbird Springs	Nev.	8945	3/4	70	19.4	20.0	19.5
Pole Creek Rgr. Sta.	Nev.	8330	3/4	62	18.8	21.4	16.8
#Seventy-six Creek	Nev.	7100	3/4	42	12.2	15.4	10.0*
OWYHEE RIVER							
Antelope Ridge		5900	3/3	23	5.7	--	6.1*
Battle Creek (A)		5700	2/24	12	3.4	6.5	2.9
#Bear Creek	Nev.	7800	3/4	62	18.8	24.3	17.3
Bull Basin (A)		5600	2/24	6	1.7	3.7	1.1*
#Fox Creek	Nev.	6800	3/4	37	10.4	14.6	9.3
Hyde Pasture (A)		5800	2/24	12	3.4	10.5	4.9
Red Canyon (A)		6650	2/24	20	5.6	11.2	5.9*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
#Seventy-six Creek	Nev.	7100	3/4	42	12.2	15.4	10.0*
Silver City		6400	3/2	60	13.2	17.2	13.8
South Mountain		6340	2/28	38	10.8	14.0	11.3
Succor Creek (A)		6100	2/24	21	5.9	8.4	5.4*
Triangle (A)		5150	2/24	1	0.3	2.5	0.6
Vaught Ranch (A)		5950	2/24	13	3.6	8.4	3.3*
War Eagle (A)		7700	2/24	69	19.3	18.6	22.1*

*(b) 1958–72, 15 year period. #Nat located directly an this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observatian Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snaw-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [6]
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	2/26	28	6.9	10.9	9.0
Kilgore		6200	2/27	34	9.1	12.1	10.1
HENRYS FORK RIVER							
Big Springs		6400	2/26	64	21.5	18.0	18.6
Black Canyon		7850	2/27	96	36.0	27.8	29.4*
Black Moose		8125	2/27	99	39.4	33.8	36.2*
Grassy Lake	Wyo.	7230	2/25	110	40.4	29.8	30.1
Island Park		6315	2/26	58	18.4	15.6	14.7
Latham Springs		7630	2/27	93	35.0	27.8	27.9*
Lucky Dog		6900	2/27	67	23.6	23.6	21.6*
Sawtell Mountain		8720	2/26	79	29.0	25.4	30.4*
Targhee Pass		7000	2/26	50	16.0	10.9	13.5*
Valley View		6500	2/26	53	17.6	12.8	15.4
White Elephant		7700	2/26	68	22.9	19.7	--
TETON RIVER							
Darby Canyon	Wyo.	8250	3/3	80	26.6	18.5	--
Freds Mountain	Wyo.	8150	3/3	91	28.7	18.2	--
Garns Mountain		8300	3/3	128	44.8	33.2	--
Indian Meadows	Wyo.	8240	3/3	116	41.7	30.4	--
Jackpine Creek	Wyo.	7350	3/3	79	27.0	20.0	--
McRenolds Reservoir		6800	3/3	73	23.3	19.2	--
Miles Creek	Wyo.	7300	3/3	54	15.3	11.5	--
Phillips Bench	Wyo.	8200	2/26	80	28.6	26.2	--
Pine Creek Pass		6750	3/3	73	21.7	16.6	15.4*
State Line		6650	3/3	65	18.1	14.1	12.8
Teton Pass W.S.	Wyo.	8400	2/24	76	27.8	20.6	--
WILLOW CREEK							
Aspen Grove		6600	2/26	43	13.5	11.2	10.3*
Birch Creek		6800	2/26	38	11.7	12.5	14.3*
Blue Ridge		6800	2/27	51	17.2	17.5	--
Bone		6200	2/26	26	8.1	8.6	7.5*
Brockman Station		6430	2/26	35	11.0	10.5	--
Hell Creek		7100	2/26	47	15.5	14.3	--
Mud Creek		7150	2/26	40	12.7	12.6	--
Sheep Mountain		6510	2/26	47	14.9	11.0	12.6*
Tex Creek		6700	2/26	39	12.1	10.0	8.5*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
SAND CREEK						
Henry Creek	5650	2/27	15	5.1	6.3	2.4*
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	2/26	32	9.3	9.1	7.9
Slug Creek Divide	7225	2/25	54	16.0	15.3	14.7*
Somsen Ranch	7000	2/26	48	15.0	13.3	12.0
Ten Mile Pass	6250	2/26	28	8.7	5.4	--
PORTNEUF RIVER						
Dempsey Creek	6280	2/28	44	13.8	14.0	10.6
Lower Pebble	5800	2/28	47	16.2	13.4	12.1*
Mink Creek	6300	2/26	54	17.4	20.5	15.0
Pebble Creek	6550	2/28	46	15.4	15.4	14.5

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	2/26	70	21.3	22.6	21.8*
Emigration Canyon	6500	2/26	40	11.4	10.5	9.7*
Montpelier Creek						
Giveout	6840	2/25	46	12.2	12.0	11.0*
Little Beaver	6970	2/25	50	14.7	14.5	14.0*
Montpelier Creek	6570	2/25	31	8.1	7.8	7.5*
Whiskey Flat	6985	2/25	30	8.0	7.4	8.9*
Mink Creek						
Christensen Ranch	5600	2/25	42	11.9	10.1	7.7
Dry Basin	7900	2/25	79	25.1	25.1	25.3*
#Emigrant Summit	7350	2/26	70	21.3	22.6	21.8*
Horseshoe Basin	8000	2/25	66	21.8	22.1	23.2*
Liberty Spring	8600	2/25	94	33.0	33.4	33.8*
Strawberry Creek	5800	2/26	41	11.6	11.5	9.6
Strawberry Mink Divide	6800	2/25	64	19.8	21.6	18.6
Cub River						
Cub River R. S.	5400	2/25	40	12.3	11.0	8.0
#Franklin Basin	8000	2/25	61	20.5	22.9	--
Willow Flat	6100	2/25	53	17.2	17.1	13.7
Worm Creek	6660	2/25	57	17.3	18.8	--
MALAD RIVER						
Cliff Canyon	7200	2/25	28	8.0	10.7	--
Daniels Creek	6400	2/25	28	7.7	6.5	--
Dry Creek Flat	6480	2/25	32	10.4	10.3	6.6
Lower Elkhorn	7000	2/25	40	12.9	15.1	12.4*
Oxford Mountain	6800	2/25	38	11.5	11.2	9.4
Upper Elkhorn	7100	2/25	56	17.7	16.8	16.0*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	PROFILE (Inches) CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SPOKANE RIVER							
Fourth of July Summit	3100	48	11.6	3/1	12.2	7.8	10.2
Lookout	5250	48	11.0	2/24	9.8	7.4	8.6
SALMON RIVER							
Mill Creek Summit	8870	48	9.4	3/3	4.2	--	4.0
Lemhi River							
Above Gilmore	8200	60	5.4	3/3	3.5	Frozen	4.2
Meadow Lake	9100	48	4.4	3/3	2.2	--	--
LITTLE LOST RIVER							
Fairview Guard Station	5850	42	7.6	2/25	7.8	--	8.5
BIG WOOD RIVER							
Galena	7300	48	10.1	2/25	6.9	5.4	--
Galena Summit	8795	48	5.8	2/25	1.6	Frozen	1.8
BOISE RIVER							
Bogus Basin Road	4830	48	7.1	2/27	5.8	--	--
RAFT RIVER							
Howell Canyon	8000	48	11.5	2/26	9.1	--	9.1
Sheep Hollow	6200	36	7.5	2/26	6.9	--	6.8
GOOSE CREEK							
Badger Gulch	6660	36	7.0	2/26	6.6	--	5.1
SALMON FALLS CREEK							
Deadline	6900	36	7.4	2/27	6.4	5.7	6.8
Patrick Ranch	5720	36	7.7	3/2	7.4	6.1	5.1
Pole Creek R. S.	8330	48	9.7	3/4	8.1	6.9	8.1
BRUNEAU RIVER							
Bear Creek	7800	72	16.9	3/4	10.8	9.0	11.1
HENRYS FORK RIVER							
Island Park	6315	48	9.9	2/26	8.5	--	10.6

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
BEAR RIVER							
Emigrant Summit	7350	36	8.2	2/26	5.7	--	7.4
Strawberry Creek	5800	48	12.7	2/26	7.6	--	11.0
Montpelier Creek							
Giveout Pass	7025	36	9.4	2/25	4.6	--	7.6
Jenson Ranch	6580	48	18.7	2/26	16.2	--	11.8

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
- Forest Service
- Agricultural Research Service
- Statistical Reporting Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of the Interior
- Bonneville Power Administration
- Bureau of Reclamation
- Fish and Wildlife Service
- Water Resources Division, Geological Survey
- National Park Service
- Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

51 573
n 36wi

WATER SUPPLY OUTLOOK FOR IDAHO

THE LIBRARY OF THE
APR 30 1976
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

AS OF
APR. 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Solt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OREG.1979

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
and
MARION O. CARSTENS, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR APRIL 1, 1976

Snowfall during the month of March was normal or above on all watersheds of Idaho with the exception of the Clearwater River drainage, which dropped slightly in relation to average. Though snow water equivalent improved during the month, five watersheds have less than average as of April 1. The Little Wood River at 77% and the Big Lost River at 81% of average represent the poorest conditions in the state, while the Priest River, Camas-Beaver Creeks and Big Wood River drainages range from 91 to 94% of normal. Snow water on all other watersheds ranges from 102% of average on the Weiser River to a high of 185% on the Palouse River.

Water supplies for the coming season are expected to be adequate throughout the state. Forecasts of seasonal runoff range from a low of 77% of normal for the Big Lost near Mackay to a high of 136% of average for the Teton River near St. Anthony. All the major streams with below normal snow water have storage facilities to properly manage the runoff and assure adequate supplies. There is a possibility that shortages might occur late in the season on small streams without storage facilities.

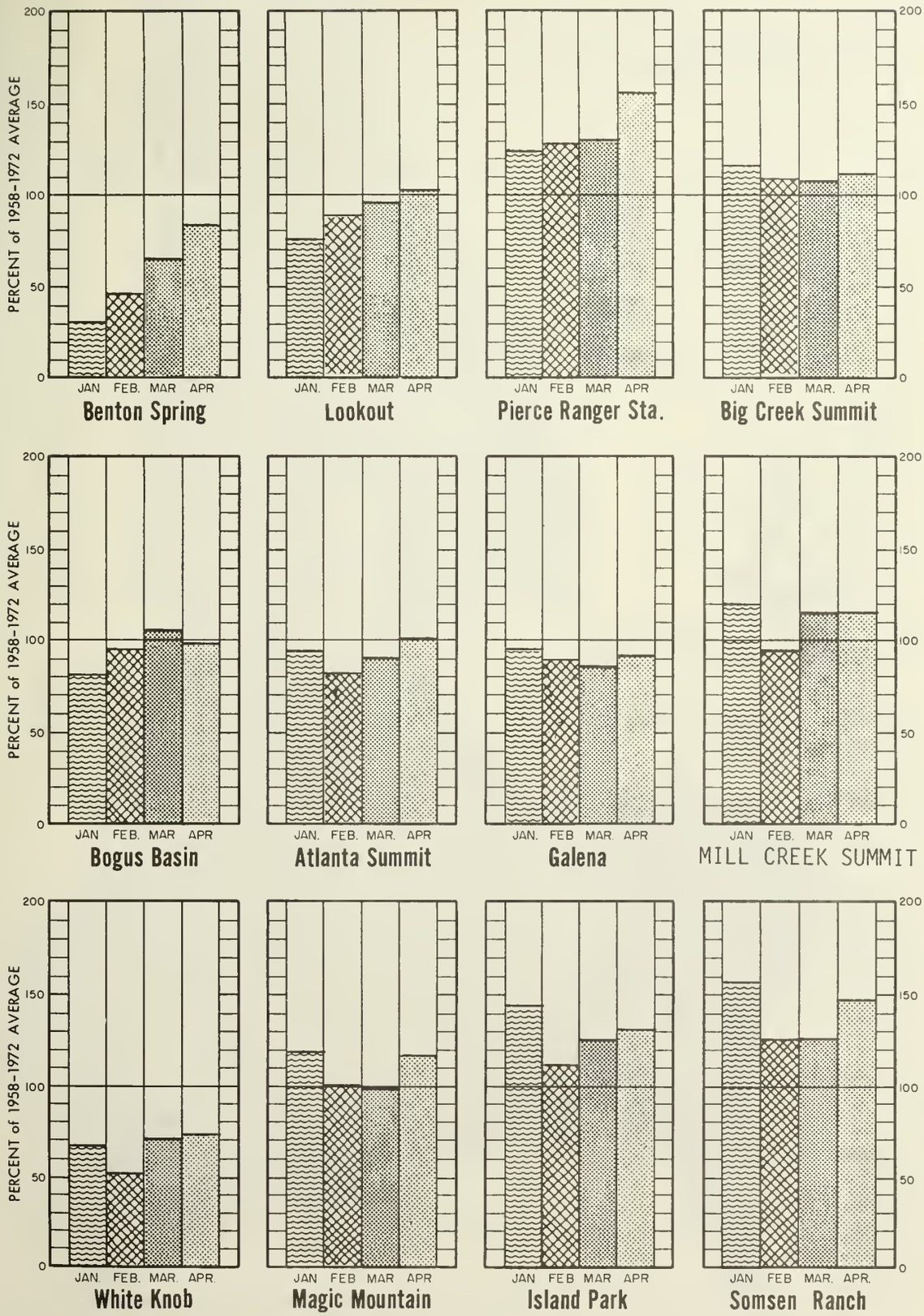
Reservoir storage is good to excellent in all systems and many reservoirs are being drafted at this time in anticipation of high volume runoff when the spring melt occurs. All major reservoirs are expected to be filled by the beginning of the irrigation season.

In general, streamflows were above normal throughout the state during the month but no established flood stages were reached.

March was cooler and drier than normal at most of the valley reporting points in Idaho. Temperatures were below normal at nearly all reporting points. Precipitation was below normal at most valley locations and ranged as low as 50% of average at some locations. Accumulated valley precipitation for the November 1975 through March 1976 period was below normal in all divisions except the Clearwater and Upper Snake, which were 15% and 36% above average.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

APRIL 1, 1976



COMPARISON of SNOW COVER

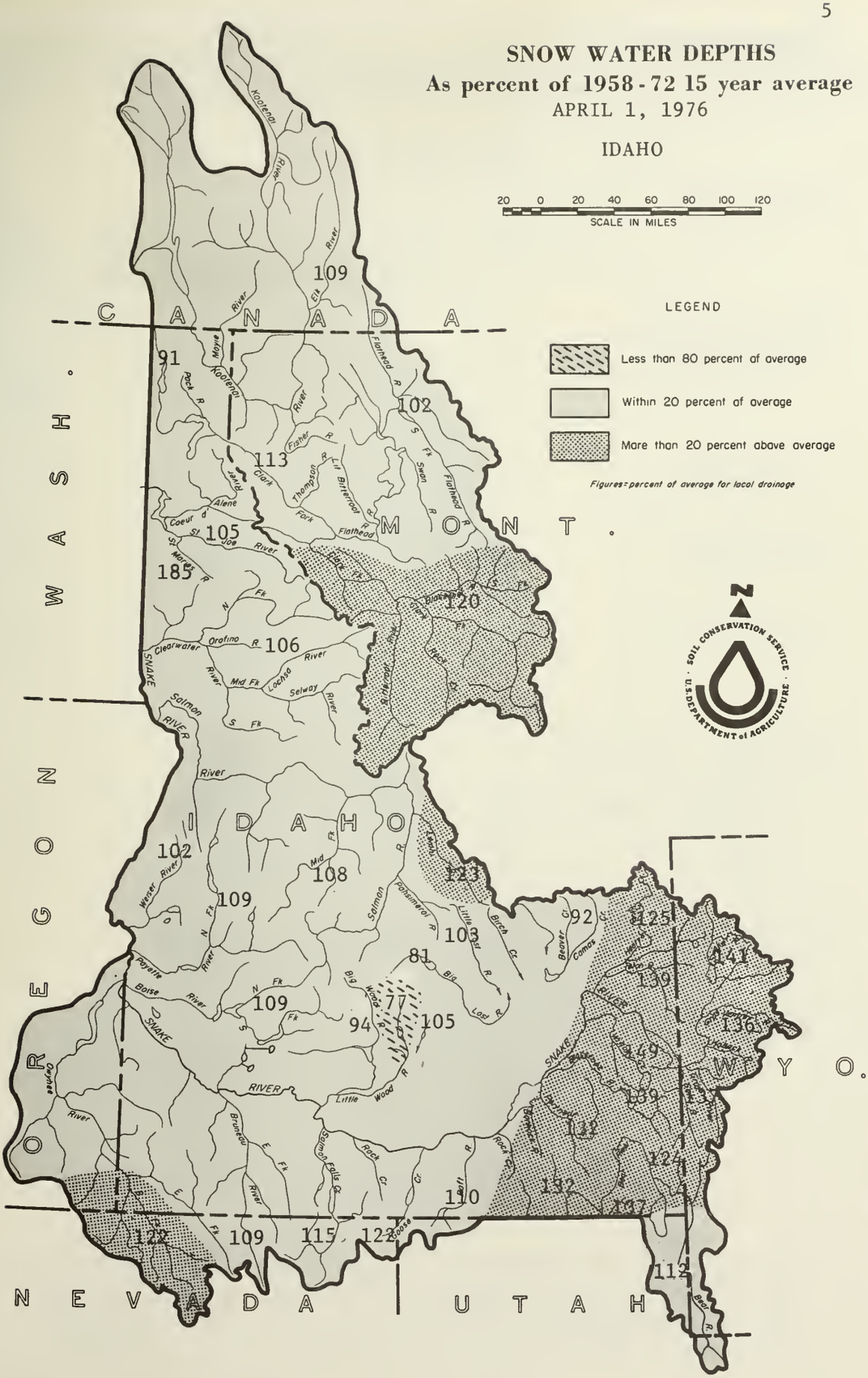
RIVER BASIN WATERSHED	NO OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	34	98	109
Pend Oreille River	89	102	113
Clark Fork River	59	106	120
Flathead River	30	95	102
Priest River	4	66	91
Spokane River	16	96	105
LOWER SNAKE RIVER BASIN			
Palouse River	5	91	185
Clearwater River	24	104	106
Salmon River	15-16	94	108
Lemhi River	6	118	123
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	93	103
Big Lost River	7	77	81
Fish Creek	2	69	105
Little Wood River	4	67	77
Big Wood River	10	80	94
Canyon Creek	1-3	85	115
Boise River	15	83	109
Payette River	14-15	89	109
Weiser River	2	81	102
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	7	79	110
Goose-Trapper Creeks	3	93	122
Salmon Falls Creek	9-10	91	115
Bruneau River	4-5	83	109
Owyhee River	5	58	122
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	28	129	136
Camas-Beaver Creeks	3	69	92
Henrys Fork River	10-11	113	125
Teton River	2-11	118	139
Willow Creek	5-9	118	149
Blackfoot River	3-4	124	139
Portneuf River	4	98	132
GREAT BASIN			
Bear River - Upper	11	102	112
Bear River - Lower	21	101	122
Montpelier Creek	4-6	110	124
Mink Creek	7	103	114
Cub River	3-4	105	137
Malad River	4-6	94	132

SNOW WATER DEPTHS

As percent of 1958-72 15 year average

APRIL 1, 1976

IDAHO



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	9450	104	Apr-Sep	8093	9073
		8325	105	Apr-Jul	6846	7957
		6700	104	Apr-Jun	5298	6431
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	15900	113	Apr-Sep	--	14336
		14570	113	Apr-Jul	--	13086
		12400	112	Apr-Jun	--	11325
Priest River						
Priest River 1/	(at)	825	94	Apr-Jul	--	879
SPOKANE RIVER						
Post Falls 2/	(at)	3300	110	Apr-Sep	--	3008
St. Joe River						
Calder	(at)	1490	111	Apr-Sep	--	1345
		1430	112	Apr-Jul	--	1277
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1175	137	Apr-Sep	--	858
Palisades Inflow 3/		4950	134	Apr-Sep	--	3714
Heise 4/	(nr)	5250	133	Apr-Sep	--	3946
Blackfoot 5/	(nr)	5470	131	Apr-Jul	--	4173
Weiser	(at)	7050	108	Apr-Sep	--	6524
Henrys Fork						
Ashton 6/	(nr)	850	127	Apr-Sep	--	671
Rexburg 7/	(nr)	1800	132	Apr-Sep	--	1364
Teton River						
St. Anthony	(nr)	600	136	Apr-Sep	--	442

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

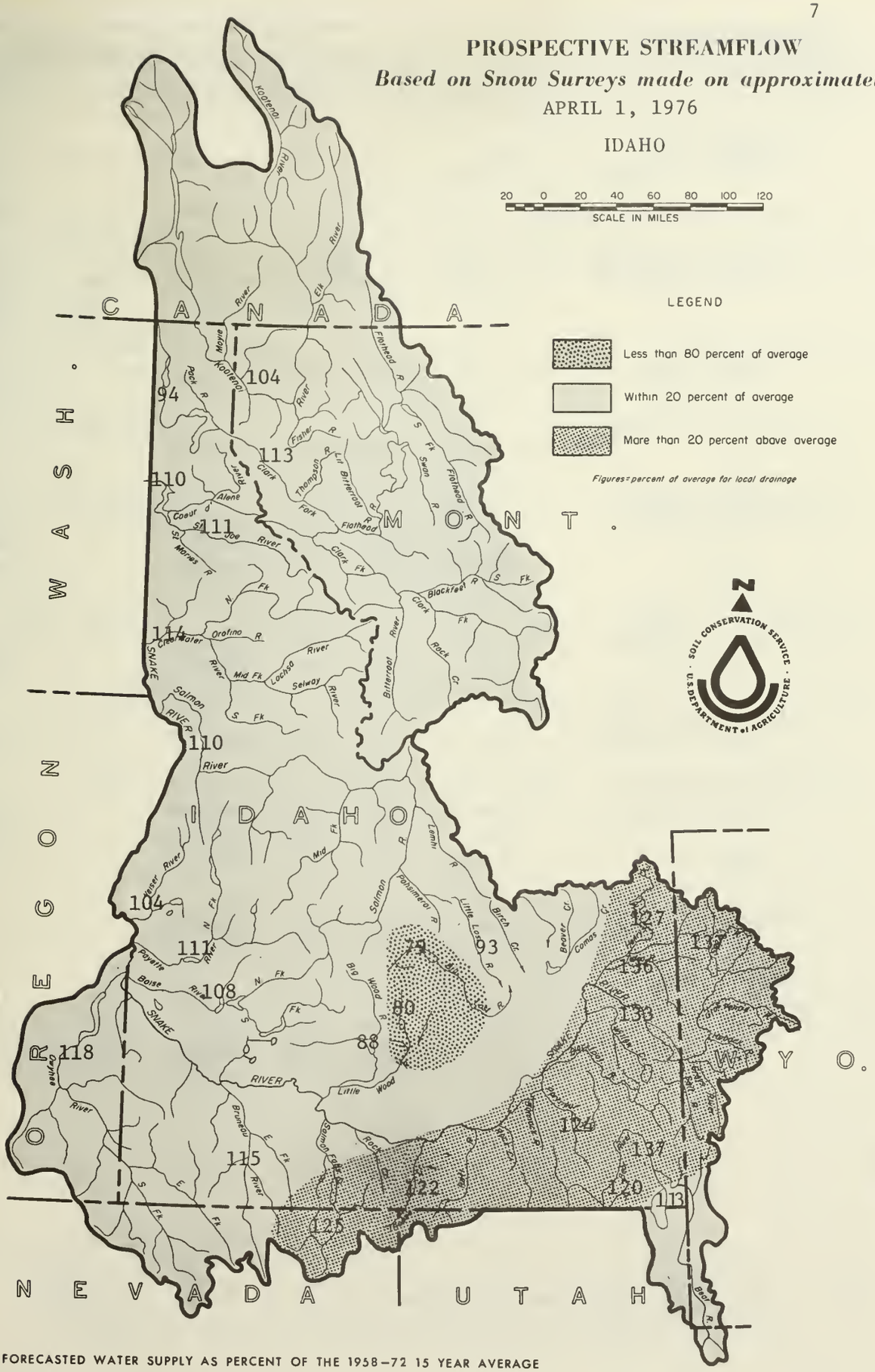
+ 1958-1972 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

APRIL 1, 1976

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958–72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
Portneuf River						
Topaz	(at)	115	124	Mar-Sep	--	93
Oakley Reservoir Inflow		36	122	Mar-Sep	--	29.5
Salmon Falls Creek						
San Jacinto	(nr)	105	125	Mar-Sep	158	84
		100	125	Mar-Jul	150	80
Bruneau River						
Hot Springs	(nr)	260	115	Mar-Sep	--	226
Little Lost River						
Howe	(nr)	38	93	Apr-Sep	--	41
Big Lost River						
Howell Ranch	(at)	165	79	Apr-Sep	--	208
		115	79	Apr-Jun	--	146
Mackay 1/	(nr)	140	77	Apr-Sep	--	183
Big Wood River						
Magic Reservoir		265	88	Apr-Sep	--	301
Inflow 2/		275	89	Mar-Jul	--	310
Little Wood River						
High Five Creek	(ab)	75	80	Apr-Sep	--	94
Boise River						
Twin Springs	(nr)	780	108	Apr-Sep	--	720
		730	110	Apr-Jul	--	665
Boise 3/	(nr)	1750	108	Apr-Sep	--	1612
South Fork						
Anderson Dam 4/	(at)	650	108	Apr-Sep	--	603
Owyhee River						
Gold Cr., Nev. 5/	(nr)	22	122	Apr-Jul	43	18
Owyhee, Nev. 5/	(nr)	68	100	Apr-Jul	144	68
Lake Owyhee		390	118	Apr-Sep	917	332
net inflow 6/		370	120	Apr-Jul	882	309

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

† 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST(c) Thousand Acre Feet	THIS YEAR FORECAST(c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	2050	111	Apr-Sep	--	1850
North Fork						
Cascade 3/	(at)	635	113	Apr-Sep	--	562
Banks 3/	(nr)	825	113	Apr-Sep	--	730
Weiser River						
Weiser ab. Crane Creek 4/		530	104	Mar-Sep	--	511
Salmon River						
Whitebird	(at)	7650	110	Apr-Sep	--	6959
Clearwater River						
Spalding	(at)	9800	114	Apr-Sep	--	8605
GREAT BASIN						
BEAR RIVER						
Harer	(at)	336	113	Apr-Sep	--	297
Montpelier Creek						
Montpelier	(nr)	17	137	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	60	120	Apr-Sep	--	50

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4 Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

RESERVOIR STORAGE (1,000 Ac. Ft.)

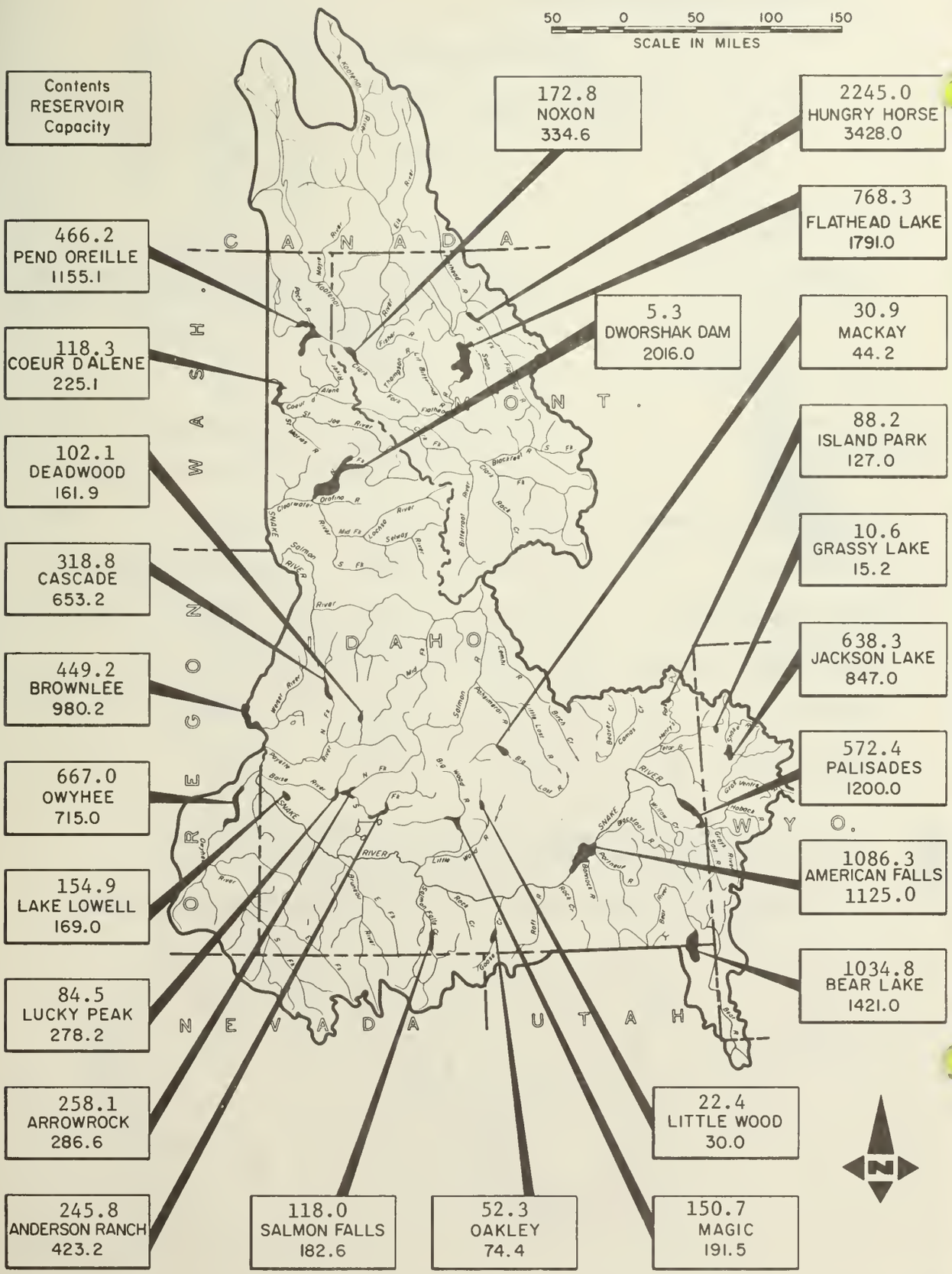
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2245.0	1793.0	2157.0
Flathead	1791.0	768.3	651.6	794.5
Pend Oreille	1155.1	466.2	215.4	477.1
Noxon	334.6	172.8	205.0	198.5
Spokane				
Coeur d'Alene	225.1	118.3	85.5	174.0
SNAKE BASIN				
Snake				
Jackson Lake	847.0	638.3	633.7	517.0
Palisades	1200.0	572.4	779.5	794.4
American Falls	1125.0	1086.3	1084.0	998.2
Island Park	127.0	88.2	123.3	123.7
Grassy Lake	15.2	10.6	11.1	10.5
Brownlee	980.2	449.2	411.3	324.4*
Goose-Trapper Creeks				
Oakley	74.4	52.3	46.4	22.9
Salmon Falls Creek				
Salmon Falls	182.6	118.0	68.3	42.6
Big Lost				
Mackay	44.2	30.9	29.9	32.1
Big Wood				
Magic	191.5	150.7	124.7	115.1
Little Wood				
Little Wood	30.0	22.4	16.1	16.7
Fish Creek				
Carey Valley	13.0	8.0	6.4	--
Boise				
Anderson Ranch	423.2	245.8	254.4	229.9
Arrowrock	286.6	258.1	276.9	231.5
Lucky Peak	278.2	84.5	113.5	119.2
Lake Lowell (Deer Flat)	169.0	154.9	145.7	143.3
Owyhee				
Owyhee	715.0	667.0	648.7	509.2
Payette				
Cascade	653.2	318.8	308.1	304.9
Deadwood	161.9	102.1	92.2	84.6
Weiser				
Mann Creek	11.1	8.0	5.9	--
Clearwater				
Dworshak	2016.0	5.3	17.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1034.8	1110.5	974.9

*Period of Record

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1976



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter March 1976		Fall - Winter Nov. 75 - Mar. 76	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	2.12	+0.27	15.22	+1.10
Flathead	0.93	-0.67	8.97	-2.16
Clark Fork	0.41	-0.34	4.45	-0.50
Pend Oreille-Spokane	2.16	-0.58	18.45	-0.30
Upper Snake	4.16	+2.64	13.80	+3.69
Snake River Plain	0.71	-0.06	4.40	-0.51
Salmon-Payette-Boise	1.39	-0.37	11.11	-0.93
Clearwater	2.33	-0.50	18.06	+2.42
Owyhee-Malheur	0.54	-0.32	3.81	-1.82

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS

INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

KOOTENAI RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE - PRIEST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

HAYDEN CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100

SPOKANE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	5920
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28 & 33	42N	1E	3200
15B9ASP	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

CLEARWATER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 &9	29N	3E	5600

SALMON RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22&26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	34	10N	13E	6570
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E3A	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine	32	6N	14E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
Smith Creek	4800	4/2	134	47.0	55.4	49.1
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	3/29	18	5.2	8.8	3.4
Benton Spring	4900	3/29	53	16.0	23.8	19.4
#Mosquito Ridge	5110	4/5	104	41.4	46.0	40.3
Schweitzer Bowl	4500	3/30	84	28.5	40.5	31.7*
Schweitzer Ridge	6100	3/30	124	44.3	70.4	48.3*
HAYDEN LAKE						
Chilco Ridge	3650	3/26	30	10.3	12.5	--
Conie Ridge	3900	3/26	33	11.1	13.8	--
Corner Creek	3150	3/26	33	11.6	13.4	--
Sage Creek Saddle	4100	3/26	65	21.0	24.8	--
SPOKANE RIVER						
Above Burke	4100	3/31	87	29.6	32.2	25.6*
Above Roland	4350	4/2	106	41.3	40.9	35.8*
Below Roland	3770	4/2	56	19.8	20.2	17.4*
Copper Ridge	4800	3/29	89	31.6	38.0	30.1
#Forty-nine Meadows	4880	4/5	90	29.6	30.6	34.9
Fourth of July Summit	3200	3/26	39	13.6	13.7	7.8
Granite Peak	6000	4/5	128	43.6	43.2	47.5*
Kellogg Peak	5560	4/2	103	37.9	40.4	34.7*
Lookout	5120	3/31	114	39.0	42.4	38.1
#Lost Lake	6000	4/5	164	56.2	63.2	62.1*
Lower Sands Creek	3400	3/29	70	22.4	22.2	20.7
Medicine Ridge	5920	4/5	140	47.4	43.8	48.1*
Mosquito Ridge	5110	4/5	104	41.4	46.0	40.3
Roland Summit	5200	4/2	126	47.9	44.8	39.2*
Sherwin	3200	3/31	58	18.7	20.8	13.8*
Sunset	5600	4/2	118	41.1	41.8	39.3*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	3/30	36	12.7	13.8	4.1*
East Twin	4050	3/30	48	17.2	18.6	9.6
Howard Creek	3500	3/30	24	8.4	10.1	1.4
Moscow Mountain	4400	3/30	73	23.6	25.4	17.7
West Twin	4250	3/30	42	15.0	17.0	8.7

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [6]
CLEARWATER RIVER							
Buck Meadows		5650	3/30	110	34.1	33.8	29.7*
Cayuse Airstrip		3700	4/5	32	11.2	14.2	9.6
Coolwater Mountain		6200	4/5	126	42.2	31.3	32.9*
Cottonwood Butte		5140	3/30	52	17.2	14.7	--
Crater Meadows		6100	4/5	128	45.4	46.5	48.7*
Crooked Fork		3600	3/29	52	18.5	16.8	14.3*
Elk Butte		5550	4/5	119	39.8	38.2	39.6*
Fish Lake Airstrip		5000	4/5	132	45.6	39.5	42.4
Forty-nine Meadows		4880	4/5	90	29.6	30.6	34.9
Goat Lake		6600	4/5	136	49.4	44.2	52.1*
#Granite Peak		6000	4/5	128	43.6	43.2	47.5*
Hemlock Butte		5500	4/5	148	50.4	50.4	52.9*
#Hoodoo Basin	Mont.	6000	4/2	154	62.7	56.8	53.8
#Hoodoo Basin (SP)	Mont.	6000	4/1	-	54.7	-	-
#Hoodoo Creek	Mont.	5900	4/2	146	58.4	51.7	50.3
Kit Carson Pasture		5020	3/29	42	12.9	13.8	9.1
Lolo Pass		5240	3/29	108	38.1	34.8	32.8
Lost Lake		6000	4/5	164	56.2	63.2	62.1*
Lower Snowhaven		5300	3/30	69	24.9	22.8	--
#Medicine Ridge		5920	4/5	140	47.4	43.8	48.1*
Mountain Meadows		6300	3/30	86	27.8	28.0	26.1*
#Nez Perce Pass	Mont.	6575	3/29	72	24.6	24.1	17.3
Orogrande Mountain		7800	4/5	122	41.0	38.5	40.6*
Pierce Ranger Station		3170	3/31	46	14.7	17.0	9.4
Powell Ranger Station		3400	3/29	45	17.9	15.9	12.5*
Savage Pass		6170	3/30	96	34.0	30.0	28.3
Shanghai Summit		4600	4/5	84	28.8	31.6	28.2*
Upper Snowhaven		5600	3/30	61	22.8	21.7	--
SALMON RIVER							
Big Creek Summit		6600	3/26	108	41.5	43.2	37.4
Borah (A)		8250	3/31	27	6.8	--	--
#Boulder Creek		5500	3/30	69	25.0	32.0	24.8
Brundage Mountain		7560	3/30	134	52.2	53.8	49.1*
#Deadwood Summit		7000	3/30	120	45.7	50.7	47.0
Double Springs Pass (A)		8400	3/31	40	12.1	--	--
#Galena Summit		8795	3/24	81	24.8	29.0	25.0
#Gibbons Pass	Mont.	7100	3/25	83	29.1	28.6	23.7
Leatherman Pass (A)		9800	3/31	72	25.6	25.9	--
#Lemhi Pass	Mont.	7480	3/29	45	13.6	12.0	9.2
#Lemhi Ridge	Mont.	8100	3/29	50	15.5	14.6	10.4
Mill Creek Summit		8870	3/31	77	27.4	24.2	23.6
Moose Creek		6200	4/1	63	19.3	21.4	16.9
Morgan Creek		7580	3/30	55	18.0	18.5	14.1*
Morse Creek Sawmill		7120	4/1	43	12.0	12.5	--
Redfish Lake Flat		6570	4/2	49	14.8	12.7	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
#Rock Flat Summit	5200	3/30	63	19.0	22.5	18.6
#Secesh Summit	6520	3/27	102	37.7	42.7	37.6*
#Squaw Meadow	5800	3/27	102	36.8	42.6	37.6
Twin Peaks (A)	10300	3/31	88	31.3	30.3	--
Vienna Mine	8960	3/29	104	36.9	--	38.7
Williams Creek Summit	7800	3/31	54	17.8	15.0	13.4
Lemhi River						
Above Gilmore	8200	3/31	39	11.8	8.7	10.5*
Aspen-Hall Pass (A)	8110	3/31	50	13.2	11.4	9.6*
Copes Camp	7500	3/31	41	11.0	9.0	8.4*
Hall Creek	7560	3/31	30	7.5	6.2	5.4*
Meadow Lake	9100	3/31	65	21.0	21.1	20.5*
Schwartz Lake	8500	3/31	59	19.0	14.2	13.4*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SPOKANE RIVER							
Fourth of July Summit	3100	48	11.6	3/25	10.0	7.8	--
SALMON RIVER							
Mill Creek Summit	8870	48	9.4	3/31	4.4	3.2*	4.2
Lemhi River							
Above Gilmore	8200	60	5.4	3/31	3.6	1.7*	--
Meadow Lake	9100	48	4.4	3/31	2.3	Frozen	2.6

*Partially Frozen

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

MIDDLE SNAKE RIVER BASIN - NORTHSIDE

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
LITTLE LOST RIVER						
Fairview Guard Station	6750	3/29	19	4.5	4.0	3.1
Lost Garfield	6600	3/29	20	4.8	5.1	2.6
Moonshine	7450	3/29	44	10.9	12.2	11.2
Sawmill Canyon	6900	3/29	32	7.7	9.0	7.9
Wet Creek Summit	7600	3/30	40	11.1	11.8	13.1
BIG LOST RIVER						
Bear Canyon	7920	3/29	51	13.4	18.3	19.4
Copper Basin	7650	3/29	31	8.6	11.4	10.5
Dry Fork	7340	3/31	48	14.2	--	--
Fishpole Lake	9350	3/29	52	16.0	22.6	--
Iron Bog	7650	3/31	34	10.0	14.6	14.6*
Leadbelt	6800	3/31	22	6.4	10.6	9.4*
#Leatherman Pass (A)	9800	3/31	72	25.6	25.9	--
Lost-Wood Divide	7900	3/29	73	23.5	25.2	23.7
Stickney Mill	7500	3/29	38	9.8	10.5	10.3
White Knob	7700	4/1	28	7.3	12.0	10.0*
FISH CREEK						
Iron Mine Creek	6370	3/25	36	10.1	14.3	10.2
Telfer Ranch	6000	3/25	25	7.6	11.4	6.6
LITTLE WOOD RIVER						
#Bear Canyon	7920	3/29	51	13.4	18.3	19.4
Garfield Ranger Station	6554	3/26	31	8.0	13.4	10.3
Muldoon	6300	3/26	23	6.2	11.4	7.1
Swede Peak	7650	3/26	49	14.2	19.0	17.8
BIG WOOD RIVER						
Camas Creeks Divide	5720	3/25	37	13.0	15.8	--
#Couch Summit	6950	3/30	59	17.6	23.6	19.0
Dollarhide Summit	8620	3/29	69	22.2	28.6	24.6*
Galena	7300	3/24	66	18.3	23.2	19.8
Galena Summit	8795	3/24	81	24.8	29.0	25.0
Graham Ranch	6200	3/29	41	11.6	16.4	13.6
#Lost-Wood Divide	7900	3/29	73	23.5	25.2	23.7
Mascot Mine	7900	3/29	46	13.2	14.9	13.9
Mount Baldy	9000	3/30	64	18.1	22.8	21.2
Soldier Ranger Station	6100	3/30	31	10.4	15.2	9.6
#Vienna Mine	8960	3/26	104	36.9	--	38.7

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7450
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7600

BIG LOST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
13F3	I	Bear Canyon	26	5N	21E	7920
13F2A	I	Copper Basin	24	6N	21E	7650
13F8A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	19	6N	19E	7900
14F2A	I	Stickney Mill	9	6N	19E	7500
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12MPS	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
13F4	I	Garfield Ranger Station	11	3N	21E	6554
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7650

FISH CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

BOISE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5360
14F10	I	Couch Summit	9	2N	14E	6950
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7000
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4900
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
16F2PS	I	Bogus Basin	16	5N	3E	6120
15E8PSR	I	Cozy Cove	19	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E7	I	Deadwood Dam	8	11N	7E	5290
15E4AS	I	Deadwood Summit	23	14N	7E	7000
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5200
15D1	I	Secesh Summit	34	22N	4E	6520
15D2	I	Squaw Meadow	5	21N	4E	5800
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
16D1P	I	Boulder Creek	15	20N	1W	5500
16E2	I	Placer Creek	15&16	17N	3W	6000

MANN CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	21	15N	5W	6800
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE ANO SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S.	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION ANO AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
CANYON CREEK						
Bennett Mountain	6650	3/29	62	20.1	24.2	17.5*
#Camas Creeks Divide	5720	3/25	37	13.0	15.8	--
Little Camas Flat	4950	3/25	28	9.0	9.3	--
BOISE RIVER						
Atlanta Summit	7500	3/30	98	35.9	40.4	36.0
Bad Bear	5500	3/31	51	18.7	20.8	13.2*
#Bennett Mountain	6650	3/29	62	20.1	24.2	17.5*
#Bogus Basin	6120	3/31	68	23.7	32.5	24.2
Bogus Basin Road	5360	3/31	10	3.8	12.0	1.4
#Camas Creeks Divide	5720	3/25	37	13.0	15.8	--
Couch Summit	6950	3/30	59	17.6	23.6	19.0
Deadman Gulch	5600	3/25	62	19.2	--	15.4*
#Dollarhide Summit	8620	3/29	69	22.2	28.6	24.6*
Graham Guard Station	5690	3/30	61	20.7	23.0	--
Jackson Peak	7000	3/30	93	35.5	37.7	32.4
#Little Camas Flat	4950	3/25	28	9.0	9.3	--
Moores Creek Summit	6100	3/31	74	38.9	42.2	33.3
Prairie	4900	3/28	31	10.0	9.6	2.8
Road Creek	5550	3/30	37	12.4	--	8.1
#Soldier Ranger Station	6100	3/30	31	10.4	15.2	9.6
Trinity Mountain	7780	3/30	109	41.1	52.2	42.9
#Vienna Mine	8960	3/29	104	36.9	--	38.7
PAYETTE RIVER						
#Big Creek Summit	6600	3/26	108	41.5	43.2	37.4
Bogus Basin	6120	3/31	68	23.7	32.5	24.2
#Brundage Mountain	7560	3/30	134	52.2	53.8	49.1*
Cozy Cove	5400	3/30	54	19.2	21.2	16.2
Crawford Ranger Station	4800	3/26	25	9.0	13.0	6.3
#Deadman Gulch	5600	3/25	62	19.2	--	15.4*
Deadwood Airstrip	5440	3/30	52	17.7	21.4	15.3
Deadwood Summit	7000	3/30	120	45.7	50.7	47.0
High Valley Summit	5170	3/25	54	17.1	18.9	11.8*
#Jackson Peak	7000	3/30	93	35.5	37.7	32.4
Lake Fork	6000	3/27	62	20.2	22.0	16.1
Rock Flat Summit	5200	3/30	63	19.0	22.5	18.6
Secesh Summit	6520	3/27	102	37.7	42.7	37.6*
Squaw Meadow	5800	3/27	102	36.8	42.6	37.6
Tripod Summit	5200	3/25	72	24.3	25.4	18.3*
WEISER RIVER						
Boulder Creek	5500	3/30	69	25.0	32.0	24.8
Placer Creek	6000	4/1	62	18.8	22.2	18.2

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
MANN CREEK						
Mann Creek	6080	4/2	67	23.5	33.3	--
Robinson Creek Ridge	6220	4/2	51	16.3	29.0	--
Sturgill Ridge	6800	4/2	76	28.1	39.4	--
Thorson Cabin	5320	4/2	47	16.0	22.6	--

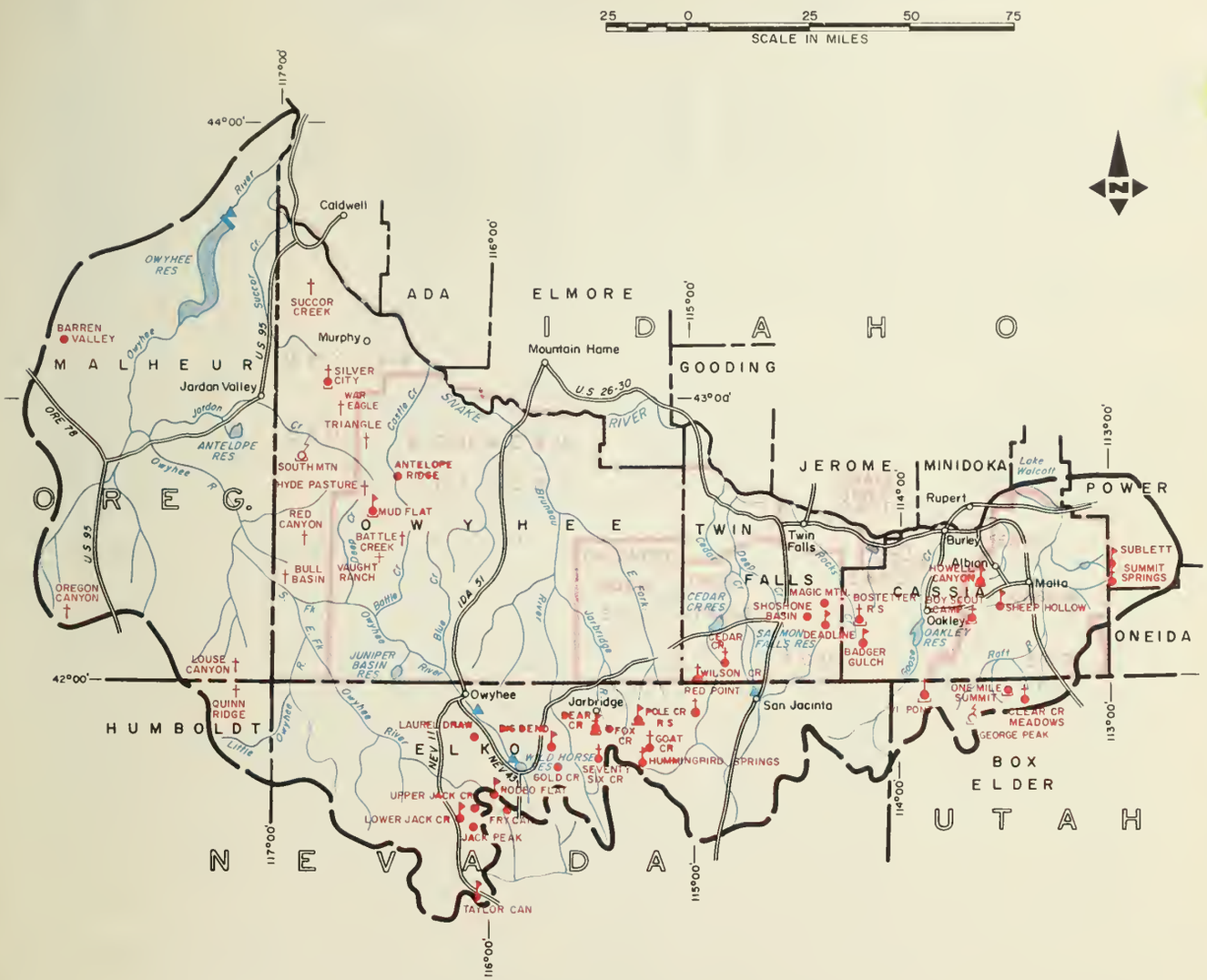
SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
LITTLE LOST RIVER							
Wet Creek Summit	8175	48	17.1	3/30	13.0	12.4*	13.2
BOISE RIVER							
Bogus Basin Road	4830	48	7.1	3/31	5.6	--	5.6

*Partially Frozen

*(b) 1958-72, 15 year period. #Not located directly on this droinage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivulent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N½ 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG 1975 M7-OL-22033-3

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average ½

MIDDLE SNAKE RIVER BASIN - SOUTHSIDE

RAFT RIVER

Boy Scout Camp		7760	3/30	47	15.0	19.5	15.0
Clear Creek Meadows	Utah	9050	3/30	59	18.0	30.4	21.6*
George Peak	Utah	9000	3/30	71	25.2	--	--
Howell Canyon		8000	3/30	83	32.3	33.3	25.7
One Mile Summit	Utah	7330	3/30	22	5.3	8.0	8.0*
Sheep Hollow		6200	3/30	25	7.6	7.2	4.8*
Sublett		6000	3/31	41	12.6	17.1	10.3
Summit Springs		6400	3/30	41	13.5	15.8	9.2

GOOSE CREEK

Badger Gulch		6660	3/30	45	14.4	17.9	12.0
Bostetter Ranger Station		7500	3/29	71	24.0	25.8	19.5
Vi Pont	Utah	7670	3/30	52	17.5	16.5	14.4*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	3/31	69	22.8	28.3	20.8
Cedar Creek		7000	3/31	40	13.3	12.8	9.3
Deadline		6900	3/30	77	28.0	27.4	22.9
#Fox Creek	Nev.	6800	3/31	36	11.6	--	10.0*
Goat Creek	Nev.	8800	3/31	59	18.4	21.0	18.8
#Hummingbird Springs	Nev.	8945	3/31	75	22.9	26.4	23.7
Magic Mountain		6700	3/30	66	22.1	22.6	18.7
#Pole Creek R. S.	Nev.	8330	3/31	75	24.7	29.2	20.6
Red Point	Nev.	7940	3/31	0	0.0	--	10.2*
Shoshone Basin		5740	3/30	30	10.2	9.7	3.7*
Wilson Creek		7500	3/31	36	10.3	13.2	12.1*

BRUNEAU RIVER

Bear Creek	Nev.	7800	3/31	69	22.8	28.3	20.8
Fox Creek	Nev.	6800	3/31	36	11.6	--	10.0*
Hummingbird Springs	Nev.	8945	3/31	75	22.9	26.4	23.7
Pole Creek Rgr. Sta.	Nev.	8330	3/31	75	24.7	29.2	20.6
#Seventy-six Creek	Nev.	7100	3/31	41	12.4	15.8	11.6*

OWYHEE RIVER

Antelope Ridge		5900	3/26	18	6.8	13.0	5.5*
Battle Creek (A)		5700	3/30	12	3.8	5.2	1.8*
#Bear Creek	Nev.	7800	3/31	69	22.8	28.3	20.8
Bull Basin (A)		5600	3/30	0	0.0	1.1	0.5*
#Fox Creek	Nev.	6800	3/31	36	11.6	--	10.0*
Hyde Pasture (A)		5800	3/30	12	3.8	10.5	3.0

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation ‖ Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

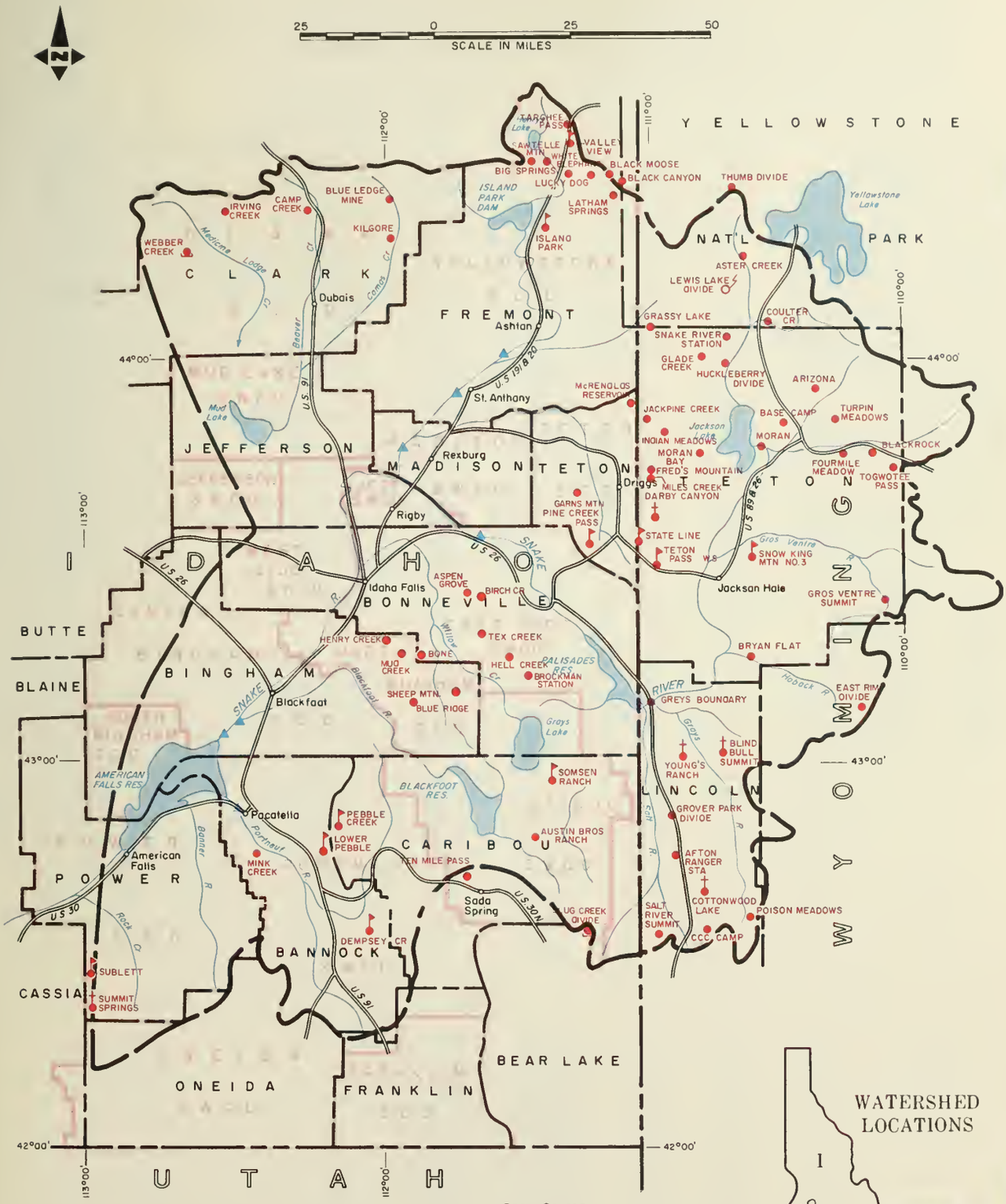
DRAINAGE BASIN and/or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average [6]
Mud Flat		5500	3/26	22	7.9	10.2	4.4
Red Canyon (A)		6650	3/30	21	6.7	11.9	4.6*
#Seventy-six Creek	Nev.	7100	3/31	41	12.4	15.8	11.6*
Silver City		6400	3/31	54	17.4	22.0	15.1
South Mountain		6340	4/3	41	14.8	20.5	12.4
Succor Creek (A)		6100	3/30	29	9.3	12.6	4.6*
Triangle (A)		5150	3/30	0	0.0	0.0	.2*
Vaught Ranch (A)		5950	3/30	12	3.8	6.3	1.3
War Eagle (A)		7700	3/30	75	28.5	26.9	22.2*

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
RAFT RIVER							
Howell Canyon	8000	48	11.5	3/30	7.8	8.2	--
Sheep Hollow	6200	36	7.5	3/30	6.8	6.4	--
Sublett	6000	36	7.0	3/30	6.1	--	--
GOOSE CREEK							
Badger Gulch	6660	36	7.0	3/30	6.0	5.6	--
SALMON FALLS CREEK							
Deadline	6900	36	7.4	3/30	6.6	5.8	7.1
Patrick Ranch	5720	36	7.4	3/31	7.7	6.9	--
Pole Creek R. S.	8330	48	9.7	3/31	7.6	7.1	8.1
BRUNEAU RIVER							
Bear Creek	7800	72	16.9	3/31	11.4	--	13.4

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

UPPER SNAKE RIVER BASIN



INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11E9	I	Big Springs	34	14N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	29	13N	43E	6315
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6500
11E36	I	White Elephant	17	14N	43E	7700

TETON RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400

CAMAS - BEAVER CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11F10	I	Aspen Grove	35	2N	41E	6600
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	33	2S	41E	6510
11F5R	I	Tex Creek	6	1S	42E	6700

SAND CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11F6	I	Henry Creek	7	1S	39E	5650

BLACKFOOT RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250

PORTNEUF RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
12G5	I	Dempsey Creek	17	10S	38E	6280
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Blue Ledge Mine		6700	3/31	50	16.4	22.4	17.2
Camp Creek		6800	3/29	33	8.3	14.6	10.4
Kilgore		6200	3/31	34	10.9	14.4	10.9
HENRYS FORK RIVER							
Big Springs		6400	3/31	68	24.6	22.6	21.3
Black Canyon		7850	3/31	107	44.6	37.6	34.0*
Black Moose		8125	3/31	115	48.2	44.2	39.8*
Grassy Lake	Wyo.	7230	3/29	126	50.3	37.2	35.0
Island Park		6315	3/31	60	21.5	20.8	16.4
Latham Springs		7630	3/31	106	44.4	37.4	32.6*
Lucky Dog		6900	3/31	75	29.4	29.4	24.2*
Sawtell Mountain		8720	3/31	98	36.8	35.2	35.3*
Targhee Pass		7000	3/31	55	19.3	17.5	16.2*
Valley View		6500	3/31	58	21.6	19.2	17.7
White Elephant		7700	3/31	81	30.4	27.7	--
TETON RIVER							
Darby Canyon	Wyo.	8250	3/31	88	31.2	25.3	--
Freds Mountain	Wyo.	8150	3/31	97	33.8	24.8	--
Garns Mountain		8300	3/30	127	47.6	43.8	--
Indian Meadows	Wyo.	8240	3/31	127	48.1	40.6	--
Jackpine Creek	Wyo.	7350	3/31	86	30.6	24.7	--
McRenolds Reservoir		6800	3/31	80	27.9	22.9	--
Miles Creek	Wyo.	7300	3/31	52	17.0	15.1	--
Phillips Bench	Wyo.	8200	3/26	100	36.0	35.7	--
Pine Creek Pass		6750	3/30	76	25.0	20.2	17.7*
State Line		6650	3/30	63	20.3	17.5	14.9
Teton Pass W.S.	Wyo.	8400	3/30	93	35.7	28.7	--
WILLOW CREEK							
Aspen Grove		6600	3/30	58	18.2	13.5	11.3*
Birch Creek		6800	3/30	51	17.2	15.4	13.9*
Blue Ridge		6800	3/30	68	23.5	22.7	--
Bone		6200	3/30	35	11.5	8.9	6.8*
Brockman Station		6430	3/30	45	14.8	13.7	--
Hell Creek		7100	3/30	56	19.2	17.6	--
Mud Creek		7150	3/30	60	20.2	16.5	--
Sheep Mountain		6510	3/30	59	19.2	14.5	13.3*
Tex Creek		6700	3/30	50	14.9	11.6	9.2*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
SAND CREEK						
Henry Creek	5650	3/29	19	5.8	4.6	0.9*
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	3/31	40	13.1	10.6	8.8
Slug Creek Divide	7225	3/29	68	22.3	20.2	17.3
Somsen Ranch	7000	3/31	65	19.8	17.2	13.5
Ten Mile Pass	6250	3/31	38	12.9	6.7	--
PORTNEUF RIVER						
Dempsey Creek	6280	3/30	52	16.0	18.0	12.4
Lower Pebble	5800	3/30	60	19.5	16.9	12.8*
Mink Creek	6300	3/31	68	23.2	25.7	17.4
Pebble Creek	6550	3/30	57	19.5	19.2	16.7

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
HENRYS FORK RIVER							
Island Park	6315	48	9.9	3/31	9.7	--	10.9

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

GREAT BASIN

25 0 25 50
SCALE IN MILES
IDAHO
WYOMING
UTAH
POWER
BANNOCK
CARIBOU
CASSIA
ONEIDA
FRANKLIN
BEAR LAKE
LINCOLN
UINTA
SUMMIT
Sodo Spring
Montpelier
Geneva
Border
Molad City
Preston
Garden City
Laketown
Soge
Nugget
Randolph
Woodruff
Almy
Evanston
Castle Rock
Bear Lake
SUMMIT SPRINGS
DANIELS CREEK
CLIFF CANYON
UPPER ELKHORN
LOWER ELKHORN
DRY CREEK FLAT
OXFORD MTN
CUB RIVER R S
WORM Cr
FRANKLIN BASIN
WILLOW FLAT
HORSESHOE BASIN
LIBERTY SPRING
EMIGRANT SUMMIT
STRAWBERRY CR
MILK DIVIDE
EMIGRANT CANYON
CHRISTENSEN RANCH
SLUG CREEK DIVIDE
LITTLE BEAVER
WHISKEY FLAT
GIVEOUT
LOWER HOME CANYON
MONTPELIER CR
UPPER HOME CANYON
SALT RIVER SUMMIT
CCC CAMP
PINEY LABARGE
BIG PARK
KELLY R S
GARDEN CITY SUMMIT
MONTE CHRISTO R S.
DRY BREAD POND
BURT'S-MILLER RANCH
CHALK CREEK NO.3
CHALK CREEK NO.2
CHALK CREEK NO.1
WHITNEY G S
STILLWATER CAMP
HAYDEN FORK
TRIAL LAKE
U.S. 30N
U.S. 191
U.S. 30S
113°00'
112°00'
111°00'
42°
42°00'
41°00'
LEGEND
Watershed Boundary
Soil Conservation District Bdry
County Boundary
Forecast Point
Snow Course
Snow Course and Snow Pressure Pillow
Snow Pressure Pillow
Aerial Snow Depth Gage
Soil Moisture Station
Temperature Gage
Precipitation Gage
Radio Telemetry
WATERSHED LOCATIONS
I
II
III
IV
V
N

INDEX to SNOW COURSES

GREAT BASIN

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800
		CUB RIVER				
11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG 1979 M7-OL-22023-5

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	3/29	81	28.0	28.6	25.4
Emigration Canyon	6500	3/29	45	15.4	13.5	10.7
Montpelier Creek						
Giveout	6840	3/29	55	16.9	14.9	12.5*
Little Beaver	6970	3/29	63	19.7	17.6	16.1*
Lower Home Canyon	7500	3/30	54	17.7	16.6	--
Montpelier Creek	6570	3/29	37	11.1	10.2	8.4*
Upper Home Canyon	8500	3/30	86	30.9	25.7	--
Whiskey Flat	6985	3/29	32	9.9	11.7	9.3*
Mink Creek						
Christensen Ranch	5600	3/30	40	13.3	10.6	7.1
Dry Basin	7900	3/30	92	33.5	32.6	30.0*
#Emigrant Summit	7350	3/29	81	28.0	28.6	25.4
Horseshoe Basin	8000	3/30	86	30.0	27.4	28.1*
Liberty Spring	8600	3/30	113	42.0	40.8	40.1*
Strawberry Creek	5800	3/29	43	13.6	13.5	10.0
Strawberry Mink Divide	6800	3/30	68	24.2	26.4	21.5
Cub River						
Cub River R. S.	5400	3/30	38	14.5	12.0	6.1
#Franklin Basin	8000	3/30	81	30.8	28.7	28.0
Willow Flat	6100	3/30	55	21.2	20.4	14.4
Worm Creek	6660	3/30	63	23.9	25.3	--
MALAD RIVER						
Cliff Canyon	7200	3/30	35	10.6	13.3	--
Daniels Creek	6400	3/30	30	9.7	5.9	--
Dry Creek Flat	6480	3/30	30	10.8	11.0	3.3
Lower Elkhorn	7000	3/30	43	15.2	17.6	13.1*
Oxford Mountain	6800	3/30	40	12.1	13.0	8.9
Upper Elkhorn	7100	3/30	60	20.0	22.2	18.7*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
Montpelier Creek							
Giveout Pass	7025	36	9.4	3/29	6.6	--	8.1
Jenson Ranch	6580	48	18.7	3/29	12.6	--	16.0

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
- Forest Service
- Agricultural Research Service
- Statistical Reporting Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of the Interior
- Bonneville Power Administration
- Bureau of Reclamation
- Fish and Wildlife Service
- Water Resources Division, Geological Survey
- National Park Service
- Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

1 573
1 36wi

WATER SUPPLY OUTLOOK FOR IDAHO

THE LIBRARY OF THE

MAY 18 1976

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

AS OF
MAY 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-546

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS PORTLAND, OREG 1978

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
and
MARION O. CARSTENS, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR MAY 1, 1976

The 1976 water supply outlook is good to excellent for most areas of Idaho. Seasonal streamflow is forecast for above average on all watersheds of the state, with the exception of the Wood and Lost Rivers in Central Idaho, which are forecast to flow at 80 to 95% of average. Other forecasts range from 104% of normal for the Weiser River to 138% of average for the Teton River drainage.

Streamflow during April was above normal on all major drainages and reservoir storage is generally above average. Many reservoirs are being drafted to make room for anticipated high volume runoff during the major snowmelt period.

April precipitation was above normal in Eastern Idaho, slightly below average in the southwestern portion, and near normal in the panhandle area. April temperatures were cooler than average throughout the state.

RESERVOIR STORAGE (1,000 Ac. Ft.)

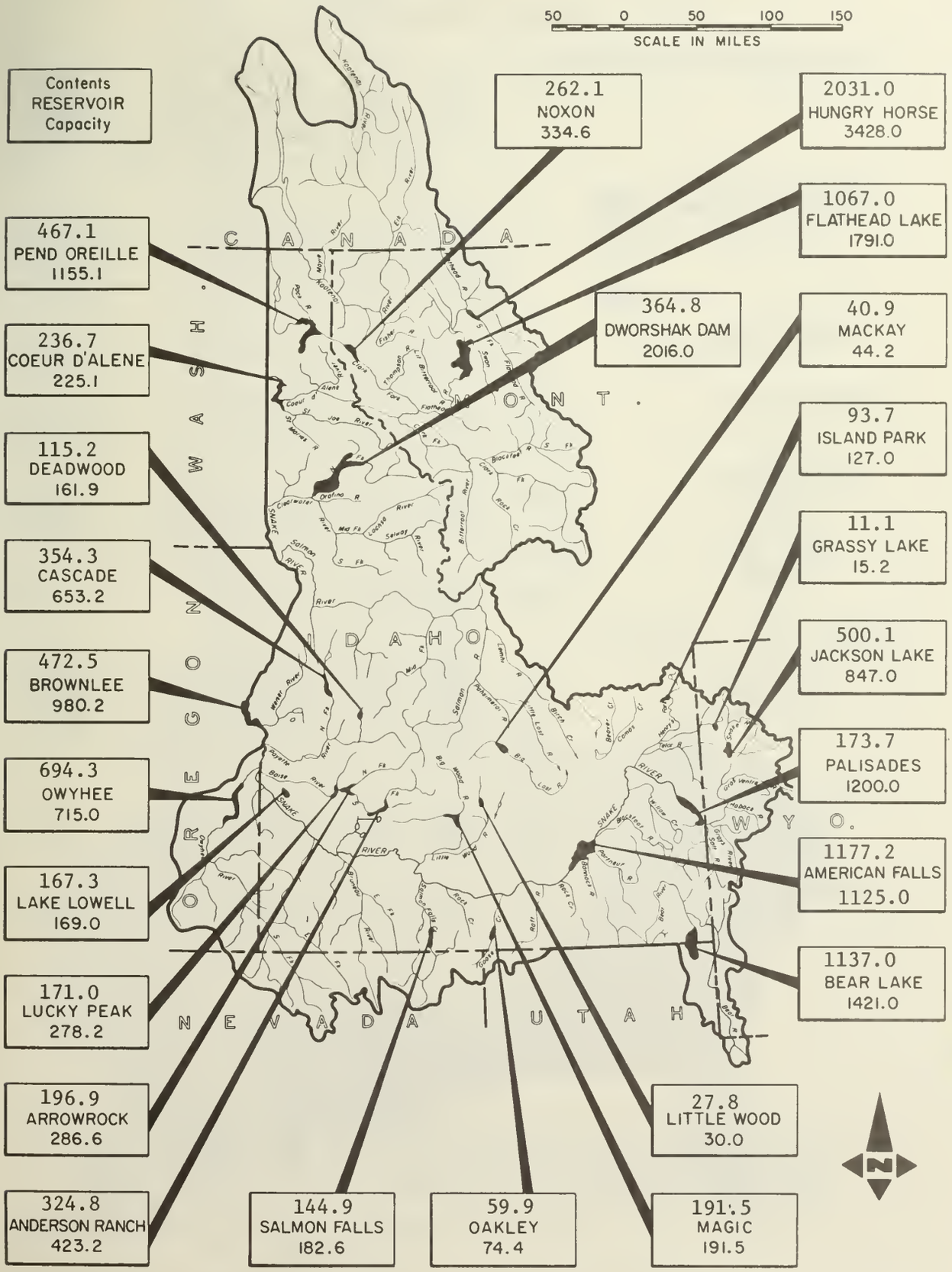
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2031.0	1689.0	2006.0
Flathead	1791.0	1067.0	648.0	977.9
Pend Oreille	1155.1	467.1	381.6	534.3
Noxon	334.6	262.1	117.3	138.4
Spokane				
Coeur d'Alene	225.1	236.7	204.2	253.1
SNAKE BASIN				
Snake				
Jackson Lake	847.0	500.1	631.6	501.7
Palisades	1200.0	173.7	333.4	774.4
American Falls	1125.0	1177.2	1107.9	1089.7
Island Park	127.0	93.7	112.5	132.1
Grassy Lake	15.2	11.1	11.3	10.9
Brownlee	980.2	472.5	305.8	432.9*
Goose-Trapper Creeks				
Oakley	74.4	59.9	51.2	27.3
Salmon Falls Creek				
Salmon Falls	182.6	144.9	78.4	59.4
Big Lost				
Mackay	44.2	40.9	31.9	31.7
Big Wood				
Magic	191.5	191.5	138.3	170.2
Little Wood				
Little Wood	30.0	27.8	7.2	24.6
Fish Creek				
Carey Valley	14.4	11.0	10.6	--
Boise				
Anderson Ranch	423.2	324.8	247.8	282.0
Arrowrock	286.6	196.9	91.7	231.4
Lucky Peak	278.2	171.0	83.0	142.5
Lake Lowell (Deer Flat)	169.0	167.3	166.5	155.4
Owyhee				
Owyhee	715.0	694.3	627.0	563.7
Payette				
Cascade	653.2	354.3	254.6	353.8
Deadwood	161.9	115.2	97.0	92.4
Weiser				
Mann Creek	11.1	10.9	7.4	--
Clearwater				
Dworshak	2016.0	364.8	306.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1137.0	1133.5	1040.0

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1976



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	8500	103	May-Sep	-	8262
		7400	104	May-Jul	-	7146
		5800	103	May-Jun	-	5620
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	13600	110	May-Sep	-	12533
		12300	111	May-Jul	-	11283
		10200	109	May-Jun	-	9523
Priest River						
Priest River 1/	(nr)	65	95	May-Jul	-	685
SPOKANE RIVER						
Post Falls 2/	(at)	2160	106	May-Sep	-	2034
St. Joe River						
Calder	(at)	1090	104	May-Sep	-	1047
		1030	105	May-Jul	-	978
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1120	131	Apr-Sep	-	858
Heise 4/	(nr)	4900	135	May-Sep	-	3640
Blackfoot 5/	(nr)	5180	136	May-Jul	-	3812
Weiser	(at)	6040	119	May-Sep	-	5076
Henrys Fork						
Ashton 6/	(nr)	735	129	May-Sep	-	569
Rexburg 7/	(nr)	1640	134	May-Sep	-	1226
Teton River						
St. Anthony	(nr)	550	138	May-Sep	-	398

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

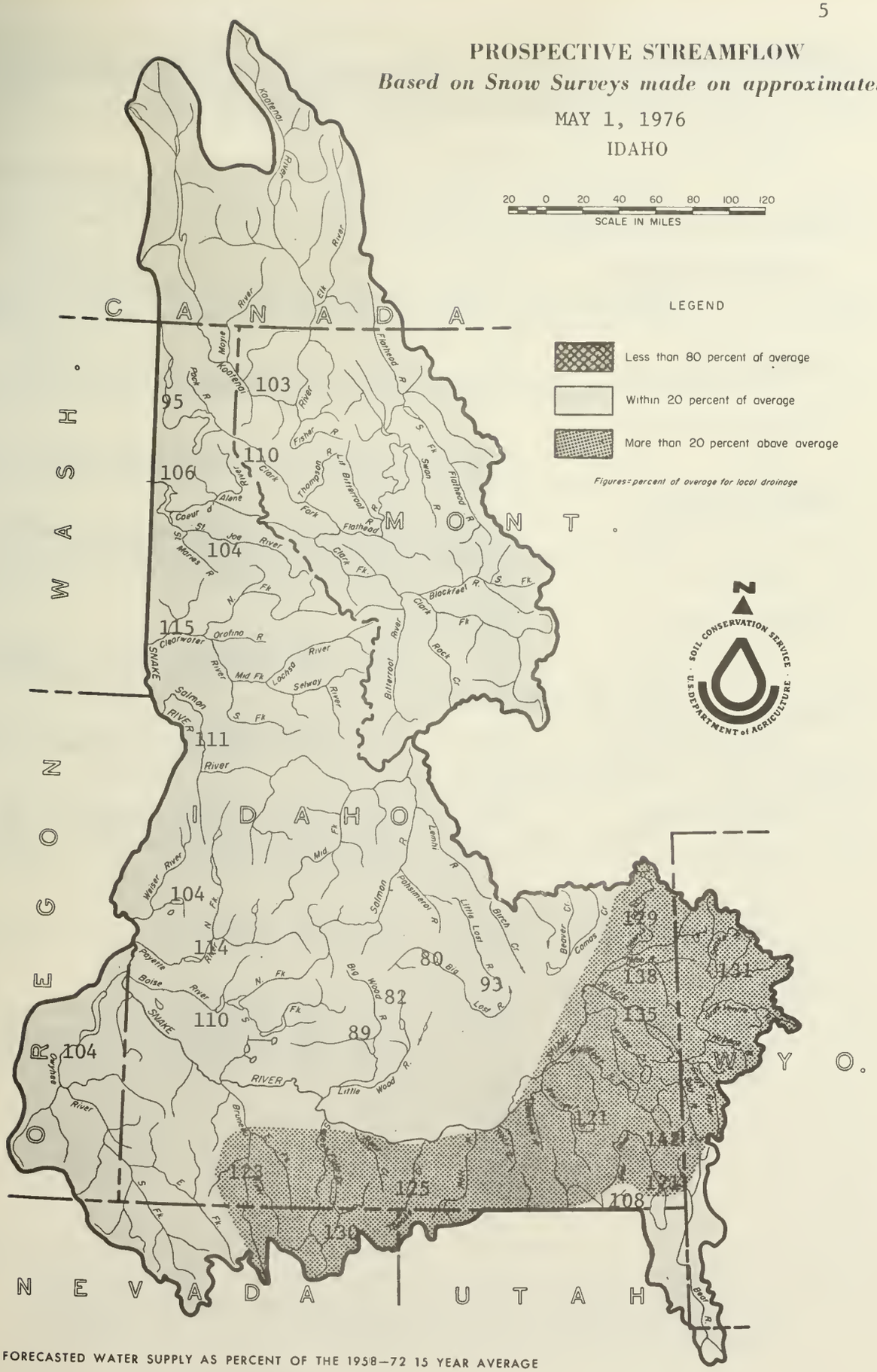
+ 1958-1972 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MAY 1, 1976

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958–72 15 YEAR AVERAGE

MAY – SEPTEMBER

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Portneuf River						
Topaz	(at)	80	121	May-Sep	-	66
Oakley Reservoir Inflow		23	125	May-Sep	-	18.4
Salmon Falls Creek						
San Jacinto	(nr)	70	130	May-Sep	-	54
		65	130	May-Jul	-	50
Bruneau River						
Hot Springs	(nr)	200	123	May-Sep	-	163
Little Lost River						
Howe	(nr)	33	93	May-Sep	-	35.5
Big Lost River						
Howell Ranch	(at)	160	81	May-Sep	-	198
		110	81	May-Jun	-	137
Mackay 1/	(nr)	135	80	May-Sep	-	168
Big Wood River						
Magic Reservoir		185	89	May-Sep	-	209
Inflow 2/		170	88	May-Jul	-	194
Little Wood River						
High Five Creek	(ab)	60	82	May-Sep	-	73
Boise River						
Twin Springs	(nr)	670	112	May-Sep	-	597
		620	114	May-Jul	-	542
Boise 3/	(nr)	1400	110	May-Sep	-	1276
South Fork						
Anderson Dam 4/	(at)	535	109	May-Sep	-	491
Owyhee River						
Gold Cr., Nev. 5/	(nr)	9	113	May-Jul	-	8
Owyhee, Nev. 5/	(nr)	41	100	May-Jul	-	41
Lake Owyhee		188	104	May-Sep	-	180
net inflow 6/		170	108	May-Jul	-	157

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

+ 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	1750	114	May-Sep	-	1536
Banks 2/	(nr)	940	113	May-Jul	-	830
North Fork						
Cascade 3/	(at)	540	115	May-Sep	-	471
Banks 3/	(nr)	680	115	May-Sep	-	589
Weiser River						
Weiser ab. Crane Creek 4/		285	104	May-Sep	-	274
Salmon River						
Whitebird	(at)	7000	111	May-Sep	-	6311
Clearwater River						
Spalding	(at)	7930	115	May-Sep	-	6892
GREAT BASIN						
BEAR RIVER						
Harer	(at)	287	121	May-Sep	-	237
Montpelier Creek						
Montpelier	(nr)	14.5	142	May-Sep	-	10.2
Cub River						
Preston	(nr)	50	108	May-Sep	-	46.1

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4 Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
Smith Creek	4800	4/29	101	43.2	57.5	48.6
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	4/26	0	0.0	0.0	0.0
Benton Spring	4900	4/26	40	14.5	25.0	15.7
HAYDEN LAKE						
Chilco Ridge	3650	4/27	6	2.4	--	--
Conie Ridge	3900	4/27	6	2.8	--	--
Corner Creek	3150	4/27	5	2.2	--	--
Sage Creek Saddle	4100	4/27	44	17.6	--	--
SPOKANE RIVER						
Above Burke	4100	4/29	60	25.9	33.6	--
Copper Ridge	4800	4/28	62	28.5	31.0	27.3
#Forty-nine Meadows	4880	4/29	70	27.4	31.0	30.3*
Fourth of July Summit	3200	4/27	9	3.3	5.5	--
Granite Peak	6000	4/29	121	44.0	46.2	48.3*
Lookout	5120	4/29	88	38.2	45.6	36.7
#Lost Lake	6000	4/29	154	59.2	59.6	62.0*
Lower Sands Creek	3400	4/28	50	19.2	23.0	16.0
Medicine Ridge	5920	4/29	126	46.8	47.4	51.5*
Sherwin	3200	4/30	35	12.2	--	--
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Buck Meadows	5650	4/28	92	33.3	--	32.7*
Cayuse Airstrip	3700	4/29	0	0.0	7.9	0.3*
Coolwater Mountain	6200	4/29	120	44.2	42.2	34.5*
Crater Meadows	6100	4/29	113	46.8	50.2	50.2*
Crooked Fork	3600	4/29	0	0.0	13.4	--
Elk Butte	5550	4/29	101	37.0	41.0	36.1*
Fish Lake Airstrip	5000	4/29	113	43.2	44.4	42.6*
Forty-nine Meadows	4880	4/29	70	27.4	31.0	30.3*
Goat Lake	6600	4/29	131	50.2	52.0	54.7*
#Granite Peak	6000	4/29	121	44.0	46.2	48.3*
Hemlock Butte	5500	4/29	144	53.6	56.4	54.4*
#Hoodoo Basin Mont.	6000	4/28	140	64.8	60.8	55.2
#Hoodoo Creek Mont.	5900	4/28	126	56.4	57.6	52.2

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME		Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average b
Lolo Pass		5240	4/29	80	36.6	37.8	32.3
Lost Lake		6000	4/29	154	59.2	59.6	62.0*
#Medicine Ridge		5920	4/29	126	46.8	47.4	51.5*
Mountain Meadows		6300	4/28	77	27.0	--	27.3*
#Nez Perce Pass	Mont.	6575	4/29	51	21.4	28.0	15.6
Orogrande Mountain		7800	4/29	134	46.5	48.0	47.5*
Pierce Ranger Station		3170	4/30	0	0.0	9.2	1.3
Powell Ranger Station		3400	4/29	0	0.0	8.9	0.0
Savage Pass		6170	4/29	78	36.2	34.3	29.2
Shanghai Summit		4600	4/29	67	23.8	32.0	24.0*
SALMON RIVER							
Big Creek Summit		6600	4/29	97	41.8	46.5	37.0
#Boulder Creek		5500	4/30	32	14.8	32.2	15.7*
Brundage Mountain		7560	4/29	123	50.2	62.2	51.9*
#Deadwood Summit		7000	4/29	94	45.0	54.3	48.4*
#Galena Summit		8795	4/26	82	27.9	36.5	26.0
#Gibbons Pass	Mont.	7100	4/25	72	30.1	33.9	24.2
#Lemhi Pass	Mont.	7480	4/29	43	14.4	16.0	--
#Lemhi Ridge	Mont.	8100	4/29	50	16.6	19.6	--
Mill Creek Summit		8870	4/29	80	29.7	29.8	25.6*
Moose Creek		6200	5/5	45	18.6	25.4	16.0*
Morgan Creek		7580	4/27	54	17.7	21.8	13.1*
#Rock Flat Summit		5200	4/29	50	18.4	23.9	16.5*
#Secesh Summit		6520	4/30	74	35.2	44.8	--
#Squaw Meadow		5800	4/30	73	36.9	45.0	36.5*
Vienna Mine		8960	4/29	97	42.7	49.2	37.9*
Lemhi River							
Above Gilmore		8200	4/30	41	13.7	--	10.7*
Meadow Lake		9100	4/30	75	25.4	--	22.3*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE							
BIG LOST RIVER							
Bear Canyon		7920	4/29	48	15.7	20.5	--
Copper Basin		7650	4/29	21	8.2	14.0	--
Fishpole Lake		9350	4/29	65	19.2	28.9	--
Lost-Wood Divide		7900	4/29	75	26.6	29.5	--
Stickney Mill		7500	4/29	24	8.0	13.7	--
White Knob		7700	5/1	27	8.6	--	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average
LITTLE WOOD RIVER						
#Bear Canyon	7920	4/29	48	15.7	20.5	--
Garfield Ranger Station	6554	4/27	0	0.0	12.6	--
Muldoon	6300	4/27	0	0.0	7.0	--
Swede Peak	7650	4/27	44	14.9	23.0	15.0*
BIG WOOD RIVER						
#Couch Summit	6950	4/27	32	11.9	--	14.0
Galena	7300	4/26	46	16.0	25.8	15.5
Galena Summit	8795	4/26	82	27.9	36.5	26.0
Graham Ranch	6200	4/26	21	7.1	15.5	7.0*
#Lost-Wood Divide	7900	4/29	75	26.6	29.5	--
Mascot Mine	7900	4/30	38	12.6	17.7	--
Mount Baldy	9000	4/30	66	20.8	26.9	22.7
Soldier Ranger Station	6100	4/27	0	0.0	11.1	--
#Vienna Mine	8960	4/29	97	42.7	49.2	37.9*
BOISE RIVER						
Atlanta Summit	7500	4/29	93	38.8	47.7	36.1
Bad Bear	5500	4/29	26	11.2	16.4	5.0*
#Bogus Basin	6120	4/30	62	25.0	38.2	23.2
Bogus Basin Road	5360	4/30	0	0.0	6.6	0.0
Couch Summit	6950	4/27	32	11.9	--	14.0
Graham Guard Station	5690	4/29	23	10.6	--	--
Jackson Peak	7000	4/29	85	37.1	40.1	31.8*
Moores Creek Summit	6100	4/29	88	39.2	44.0	31.9
#Soldier Ranger Station	6100	4/27	0	0.0	11.1	--
Trinity Mountain	7780	4/29	95	45.0	56.0	44.2*
#Vienna Mine	8960	4/29	97	42.7	49.2	37.9*
PAYETTE RIVER						
#Big Creek Summit	6600	4/29	97	41.8	46.5	37.0
Bogus Basin	6120	4/30	62	25.0	38.2	23.2
#Brundage Mountain	7560	4/29	123	50.2	62.2	51.9*
Crawford Ranger Station	4800	4/29	0	0.0	5.9	0.0
Deadwood Airstrip	5440	4/29	15	6.7	19.8	7.3*
Deadwood Summit	7000	4/29	94	45.0	54.3	48.4*
#Jackson Peak	7000	4/29	85	37.1	40.1	31.8*
Lake Fork	6000	4/29	42	18.4	22.1	--
Rock Flat Summit	5200	4/29	50	18.4	23.9	16.5*
Secesh Summit	6520	4/30	74	35.2	44.8	--
Squaw Meadow	5800	4/30	73	36.9	45.0	36.5*
WEISER RIVER						
Boulder Creek	5500	4/30	32	14.8	32.2	15.7*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]

MIDDLE SNAKE RIVER BASIN - SOUTHSIDE

RAFT RIVER

Howell Canyon		8000	4/29	70	31.0	--	23.6*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	4/28	71	26.8	32.6	20.0*
Cedar Creek (A)		7000	4/28	6	2.3	17.6	3.1
Deadline		6900	4/27	64	27.0	38.8	19.5
Goat Creek (A)	Nev.	8800	4/28	71	24.4	27.5	20.1
#Hummingbird Springs (A)	Nev.	8945	4/28	96	35.0	41.3	26.2
Magic Mountain		6700	4/27	58	23.3	29.8	15.9
#Pole Creek R. S.	Nev.	8330	4/26	80	27.4	34.6	22.7
Red Point (A)	Nev.	7940	4/28	10	3.6	18.4	--
Shoshone Basin		5740	4/27	0	0.0	9.8	--
Wilson Creek (A)		7500	4/28	24	9.1	18.6	--

BRUNEAU RIVER

Bear Creek	Nev.	7800	4/28	71	26.8	32.6	20.0*
Hummingbird Springs (A)	Nev.	8945	4/28	96	35.0	41.3	26.2
Pole Creek R. S.	Nev.	8330	4/26	80	27.4	34.6	22.7
#Seventy-six Creek	Nev.	7100	4/28	25	8.1	16.0	--

OWYHEE RIVER

#Bear Creek	Nev.	7800	4/28	71	26.8	32.6	20.0*
#Seventy-six Creek	Nev.	7100	4/28	25	8.1	16.0	--
Silver City		6400	4/30	30	11.3	23.0	8.9*
South Mountain		6340	5/2	15	6.8	--	7.1*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]

UPPER SNAKE RIVER BASIN

HENRYS FORK RIVER

Big Springs		6400	4/29	50	20.3	24.2	17.1*
Grassy Lake	Wyo.	7230	4/30	108	50.9	43.1	34.3*
Island Park		6315	4/29	43	17.4	21.4	10.2
Sawtell Mountain		8720	4/29	99	36.8	43.4	38.1*
Targhee Pass		7000	4/29	42	15.9	17.3	15.4*
Valley View		6500	4/29	39	16.0	22.5	14.2*
White Elephant		7700	4/29	73	30.2	31.7	--

TETON RIVER

Darby Canyon	Wyo.	8250	4/29	93	34.9	30.8	--
Freds Mountain	Wyo.	8150	4/29	96	35.7	30.3	--
Garns Mountain		8300	4/29	117	47.0	42.6	--
Indian Meadows	Wyo.	8240	4/29	128	54.6	46.3	--
Jackpine Creek	Wyo.	7350	4/29	84	33.0	30.3	--
McRenolds Reservoir		6800	4/29	72	28.7	28.1	--
Miles Creek	Wyo.	7300	4/29	42	15.7	18.6	--
Phillips Bench	Wyo.	8200	4/30	91	38.4	37.2	--
Pine Creek Pass		6750	4/29	62	24.1	22.8	12.5*
State Line		6650	4/29	48	19.6	20.2	8.4
Teton Pass W.S.	Wyo.	8400	4/28	87	36.3	35.0	--

WILLOW CREEK

Aspen Grove		6600	4/28	50	16.8	17.2	--
Birch Creek		6800	4/28	36	13.2	19.2	--
Blue Ridge		6800	4/28	48	18.3	25.6	--
Bone		6200	4/28	10	3.4	7.0	--
Brockman Station		6430	4/28	21	7.7	14.4	--
Hell Creek		7100	4/28	40	15.4	20.4	--
Mud Creek		7150	4/28	52	18.0	22.1	--
Sheep Mountain		6510	4/28	39	14.4	15.4	--
Tex Creek		6700	4/28	38	12.8	14.0	--

SAND CREEK

Henry Creek		5650	4/28	6	1.6	--	--

BLACKFOOT RIVER

Slug Creek Divide		7225	4/29	50	19.7	21.6	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
GREAT BASIN						
BEAR RIVER						
Montpelier Creek						
Giveout	6840	4/29	10	4.3	15.5	6.7*
Little Beaver	6970	4/29	36	12.9	19.4	11.6*
Lower Home Canyon	7500	4/29	36	12.1	18.0	--
Montpelier Creek	6570	4/29	4	1.6	6.9	--
Upper Home Canyon	8500	4/29	70	27.9	29.5	--
Whiskey Flat	6985	4/29	31	11.4	10.6	3.2*
Mink Creek						
#Emigrant Summit	7350	4/29	70	28.2	--	23.6*
Cub River						
Cub River R. S.	5400	4/30	0	0.0	--	1.0
#Franklin Basin	8000	4/28	77	32.2	35.4	--
Willow Flat	6100	4/30	26	11.1	--	4.0*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	PROFILE (Inches) CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SALMON RIVER							
Mill Creek Summit	8870	48	9.4	4/29	4.4	2.7	6.6
Lemhi River							
Above Gilmore	8200	60	5.4	4/30	3.6	--	4.3
Meadow Lake	9100	48	4.4	4/30	2.2	--	2.7
BOISE RIVER							
Bogus Basin Road	4830	48	7.1	4/30	5.8	--	--
BEAR RIVER							
Montpelier Creek							
Giveout Pass	7025	36	9.4	4/29	9.2	8.0	8.0
RAFT RIVER							
Howell Canyon	8000	48	11.5	4/29	9.3	--	11.9
SALMON FALLS CREEK							
Deadline	6900	36	7.4	4/27	7.4	--	--
Patrick Ranch	5720	36	7.7	4/26	7.1	6.8	--
HENRYS FORK RIVER							
Island Park	6315	48	9.9	4/29	9.4	9.5	10.7
Valley View	6500	48	13.3	4/29	10.8	--	12.4

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
- Forest Service
- Agricultural Research Service
- Statistical Reporting Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of the Interior
- Bonneville Power Administration
- Bureau of Reclamation
- Fish and Wildlife Service
- Water Resources Division, Geological Survey
- National Park Service
- Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

51.573
n36wi

WATER SUPPLY OUTLOOK FOR IDAHO

THE LIBRARY OF THE
JUN 2 2 1976
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

AS OF
JUNE 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS PORTLAND, OREG 1978

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
and
MARION O. CARSTENS, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

JUNE 1, 1976

SNOW SURVEYS, SUPPLEMENTAL MEASUREMENTS AND CORRECTIONS

Water supplies are forecast to be adequate throughout Idaho for the 1976 irrigation season.

Reservoir storage is good to excellent with all major reservoirs expected to fill by the time high irrigation demand begins.

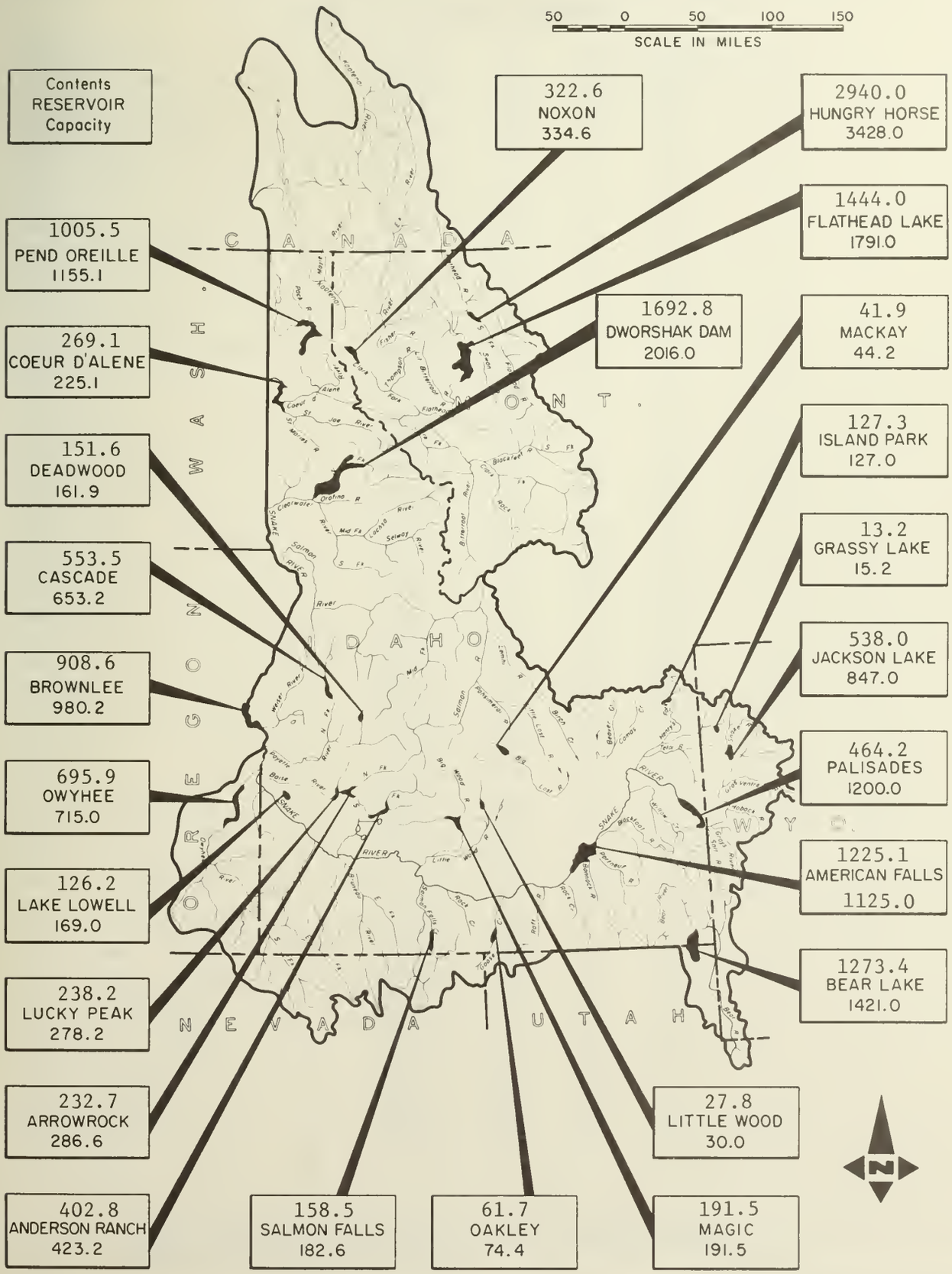
In general, May precipitation was below normal and temperatures were slightly warmer than average. A quite normal snowmelt has been experienced resulting in an orderly runoff with only minor flooding in localized areas.

This report carries June 1, and supplemental and corrected measurements made earlier in the season.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1, 1976



SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b

JUNE 1, 1976 MEASUREMENTS

Aspen Grove	6600	6/1	0	0.0	7.2	--
Atlanta Summit	7500	6/1	33	16.6	41.4	--
Bear Canyon	7920	5/26	T	0.0	15.2	--
Big Creek Summit	6600	5/28	33	17.3	39.8	--
Birch Creek	6800	6/1	0	0.0	1.4	--
Blue Ridge	6775	6/1	0	0.0	10.3	--
Bone	6200	6/1	0	0.0	--	--
Brockman Station	6430	6/1	0	0.0	--	--
Brundage Mountain	7560	6/1	49	25.2	52.8	--
Coolwater Mountain	6200	6/7	30	12.8	36.2	--
Copper Basin	7650	5/26	0	0.0	5.5	--
Crater Meadows	6100	6/7	27	17.0	46.8	--
Crawford Ranger Station	4800	5/28	0	0.0	0.0	--
Darby Canyon	8250	6/1	11	4.9	28.6	--
Elk Butte	5550	6/7	0	0.0	23.6	--
Fishpole Lake	9350	5/26	27	10.9	25.2	--
Freds Mountain	8000	6/1	20	9.0	28.1	--
Galena Summit	8795	5/26	35	14.9	33.9	--
Garns Mountain	8300	6/1	66	36.1	48.0	--
Goat Lake	6600	6/7	56	26.5	51.8	--
Graham Guard Station	5690	6/1	0	0.0	--	--
Granite Peak	6000	6/7	50	21.6	42.1	--
Hell Creek	7100	6/1	0	0.0	--	--
Hemlock Butte	5500	6/7	47	20.2	47.2	--
Henry Creek	5650	6/1	0	0.0	--	--
Indian Meadows	8200	6/1	61	32.2	47.2	--
Jackpine	7500	6/1	10	4.8	27.6	--
Jackson Peak	7000	6/1	0	0.0	35.6	--
Lake Fork	6000	5/28	0	0.0	5.5	--
Lookout	5250	5/26	31	14.6	28.8	--
Lost Lake	6000	6/7	77	35.4	58.2	--
Lost-Wood Divide	7900	5/26	14	5.8	21.4	--
Mascot Mine	7900	5/26	T	0.0	10.9	--
McRenold Reservoir	6800	6/1	0	0.0	20.9	--
Medicine Ridge	6150	6/7	52	22.8	43.4	--
Miles Creek	7500	6/1	0	0.0	9.2	--
Moores Creek Summit	6100	5/25	34	17.2	33.0	8.1
Mud Creek	7150	6/1	0	0.0	10.3	--
Orogrande Mountain	7800	6/7	80	35.0	53.6	--
Pine Creek Pass	6750	6/1	0	0.0	9.3	--
Schweitzer Bowl	4500	5/27	0	0.0	--	--
Schweitzer Ridge	6100	5/27	50	24.0	--	--
Secesh Summit	6600	5/28	15	7.4	36.2	--
Sheep Mountain	6510	6/1	0	0.0	--	--
Squaw Meadow	5800	5/28	0	0.0	35.6	--
State Line	6400	6/1	0	0.0	6.4	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
Stickney Mill	7500	5/26	0	0.0	0.0	--
Tex Creek	6700	6/1	0	0.0	--	--
Trinity Mountain	7780	5/27	32	16.6	49.6	--
Vienna Mine	8960	6/1	45	22.4	45.0	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 6

SUPPLEMENTAL MEASUREMENTS

DECEMBER 1, 1975						
Willow Flat	6100	12/2	27	5.5	--	--
JANUARY 15, 1976						
Atlanta Summit	7500	1/13	82	20.5	15.6	--
Bad Bear	5500	1/13	52	12.4	--	--
Bogus Basin	6120	1/14	60	15.5	--	--
Bogus Basin Road	5360	1/14	34	5.2	--	--
Graham Guard Station	5690	1/13	53	10.8	--	--
Jackson Peak	7000	1/13	76	19.7	--	--
Moores Creek Summit	6100	1/13	96	24.1	--	--
Mount Baldy	9000	1/15	44	10.2	8.4	--
Trinity Mountain	7780	1/13	87	23.4	--	--
Vienna Mine	8960	1/13	84	21.7	--	--
FEBRUARY 1, 1976						
Darby Canyon	8250	2/6	60	20.8	13.1	--
Garns Mountain	8300	2/6	97	36.2	19.6	--
Indian Meadows	8240	2/6	95	34.3	19.0	--
Jackpine Creek	7350	2/6	67	22.0	13.3	--
McRenolds Reservor	6800	2/6	62	18.6	12.6	--
Miles Creek	7300	2/6	39	11.0	8.0	--
FEBRUARY 15, 1976						
Above Burke	4100	2/13	58	17.8	--	--
Atlanta Summit	7500	2/12	68	22.9	27.2	--
Bad Bear	5500	2/12	41	12.5	13.2	--
Bogus Basin	6120	2/13	53	17.7	20.8	--
Bogus Basin Road	5360	2/13	15	5.2	10.4	--
Galena	7300	2/13	40	11.8	17.8	--
Galena Summit	8795	2/13	53	15.8	21.2	--
Graham Guard Station	5690	2/16	58	14.1	16.3	--
Jackson Peak	7000	2/12	68	23.5	25.0	--
Moores Creek Summit	6100	2/13	79	27.4	27.8	--
Mount Baldy	9000	2/13	42	11.4	16.1	16.4
Trinity Mountain	7780	2/17	92	30.9	34.5	--
MARCH 1, 1976						
Cayuse Airstrip	3700	3/8	43	13.0	13.6	11.7
Crater Meadows	6100	3/8	120	39.2	37.8	40.9*
Elk Butte	5550	3/8	111	34.7	33.3	35.0*
Forty-nine Meadows	4880	3/8	89	24.8	25.8	28.4*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
MARCH 1 1976 (Cont'd)						
Goat Lake	6600	3/8	130	42.0	38.6	43.8*
Granite Peak	6000	3/8	120	36.0	34.4	37.7*
Hemlock Butte	5500	3/8	144	46.2	42.8	42.8*
Lost Lake	6000	3/8	152	49.0	45.6	51.3*
Medicine Ridge	5920	3/8	134	39.8	35.8	38.5*
Shanghai Summit	4600	3/8	82	24.8	26.6	24.5*
MARCH 15, 1976						
Atlanta Summit	7500	3/15	90	28.0	32.2	--
Bad Bear	5500	3/16	53	18.8	--	--
Bogus Basin	6120	3/15	72	24.5	25.5	--
Bogus Basin Road	5360	3/15	18	5.4	--	--
Fourth of July Summit	3200	3/11	37	12.6	--	--
Galena	7300	3/15	58	17.3	18.9	--
Galena Summit	8795	3/15	72	22.6	23.7	--
Graham Guard Station	5690	3/15	60	17.3	19.4	--
Jackson Peak	7000	3/15	86	29.0	28.8	--
Lookout	5250	3/12	103	34.6	36.5	--
Moores Creek Summit	6100	3/16	97	33.9	32.8	--
Mount Baldy	9000	3/15	58	16.0	17.7	19.7
Prairie	4900	3/14	35	9.9	6.5	--
Sherwin	3200	3/15	52	16.2	18.6	14.2
Trinity Mountain	7780	3/15	100	36.6	41.3	--
Vienna Mine	8960	3/15	94	32.7	33.3	--
APRIL 15, 1976						
Atlanta Summit	7500	4/17	85	34.8	45.9	--
Bad Bear	5500	4/16	36	13.0	18.5	--
Bogus Basin	6120	4/15	70	22.7	36.9	--
Bogus Basin Road	5360	4/15	8	0.8	12.5	--
Galena	7300	4/15	49	15.7	24.2	--
Galena Summit	8795	4/15	76	26.4	34.0	--
Graham Guard Station	5690	4/17	35	13.7	--	--
Jackson Peak	7000	4/17	86	35.8	37.7	--
Lookout	5120	4/15	99	37.5	--	--
Moores Creek	6100	4/16	96	39.6	42.5	31.7
Mount Baldy	9000	4/16	68	18.6	25.2	--
Prairie	4900	4/15	0	0.0	7.5	--
Trinity Mountain	7780	4/17	94	43.1	57.0	--
Vienna Mine	8960	4/17	90	39.0	46.7	--
MAY 15, 1976						
Aspen Grove	6600	5/12	0	0.0	15.2	--
Atlanta Summit	7500	5/14	60	27.7	50.3	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
MAY 15, 1976 (Cont'd)						
Birch Creek	6800	5/12	0	0.0	15.9	--
Blue Ridge	6800	5/12	9	3.8	23.5	--
Bogus Basin	6120	5/14	22	9.5	38.5	--
Bone	6200	5/12	0	0.0	--	--
Brockman Station	6430	5/12	0	0.0	7.4	--
Hell Creek	7100	5/12	6	2.5	15.4	--
Henry Creek	5650	5/12	0	0.0	--	--
Jackson Peak	7000	5/14	58	25.2	43.2	--
Lookout	5250	5/14	54	24.8	41.0	--
Mud Creek	7150	5/12	24	9.8	22.1	--
Sheep Mountain	6510	5/12	0	0.0	9.2	--
Tex Creek	6550	5/12	0	0.0	11.0	--
Trinity Mountain	7780	5/13	67	32.1	57.2	--
Vienna Mine	8960	5/14	73	33.3	51.7	--
CORRECTIONS TO PREVIOUSLY PUBLISHED 1976 DATA						
JANUARY 1, 1976						
Mascot Mine	7900	12/29	20	4.8	2.1	--
FEBRUARY 1, 1976						
Crater Meadows	6100	1/29	100	31.8	29.1	31.2*
Moose Creek	6200	2/2	48	15.0	16.9	11.8
MARCH 1, 1976						
Antelope Ridge	5900	3/3	23	5.6	--	6.1*
Darby Canyon	8250	3/3	80	26.2	18.5	--
APRIL 1, 1976						
Below Roland	3770	4/2	56	20.3	20.2	17.4*
Orogrande Mountain	7800	4/5	122	41.6	38.5	40.6*
Smith Creek	4800	4/2	134	47.1	55.4	49.1
Sunset	5600	4/2	118	43.6	41.8	39.3*
MAY 1, 1976						
Copper Ridge	4800	4/28	62	28.4	31.0	27.3
Fourth of July	3200	4/27	9	3.2	5.5	--
Moose Creek	6200	5/5	45	18.2	25.4	16.0*
White Knob	7700	5/1	28	8.6	--	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

51.573
136wi

WATER SUPPLY OUTLOOK FOR IDAHO

The Library of the
JAN 27 1977
University of Illinois
at Urbana Champaign

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JAN. 1, 1977

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western stotes originotes os mountoin snowfall. This snowfoll occumulotes during the winter ond spring, severol months before the snow melts ond oppeors os streomflow. Since the runoff from precipitotion os snow is deloyed, estimotes of snowmelt runoff con be mode well in odvonce of its occurrence. Streomflow forecosts published in this report ore bosed principolly on meosurement of the woter equivolent of the mountoin snowpock.

Forecosts become more occurote os more of the doto offecting runoff ore meosured. All forecosts ossume that climatic foctors during the remoinder of the snow occumulotion ond melt seoson will interoct with o resultont average effect on runoff. Eorly seoson forecosts ore therefore subject to o greoter chonge thon those mode on loter dotes.

The snow course meosurement is obtoined by sampling snow depth ond woter equivolent ot surveyed ond morked locotions in mountoin oreos. A totol of obout ten samples ore token ot eoch locotion. The overoge of these are reported os snow depth and woter equivolent. These meosurements ore repeoted in the same locotion neor the same dotes eoch year.

Snow surveys ore mode monthly or semi-monthly from Jonuory 1 through June 1 in most stotes. There ore obout 1900 snow courses in Western United Stotes ond in the Columbio Bosin in British Columbio. Networks of outomotic snow woter equivolent ond reloted dato sensing devices, olong with rodio telemetry are expanding ond will provide o continuous record of snow woter ond other porometers ot key locotions.

Detoiled dato on snow course ond soil moisture meosurements ore presented in stote ond locol reports. Other dato on reservoir storoge, summories of precipitotion, current streamflow, ond soil moisture conditions ot volley elevotions ore olso included. The report for Western United Stotes presents o brood picture of woter supply outlook conditions, including selected streamflow forecosts, summory of snow occumulotion to date, ond storoge in lorger reservoirs.

Snow survey ond soil moisture doto for the period of record ore published by the Soil Conservotion Service by stotes obout every five yeors. Dato for the current yeor is summorized in o West-wide basic dota summory ond published obout October 1 of eoch yeor.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservotion Service publishes reports following the principal snow survey dotes from Jonuory 1 through June 1 in cooperotion with stote woter administrotors, ogriculturol experiment stotions ond others. Copies of the reports for Western United Stotes ond oll stote reports moy be obtoined from Soil Conservotion Service, West Technicol Service Center, Room 510, 511 N.W. Broodwoy, Portlond, Oregon 97209.

Copies of stote ond locol reports may olso be obtoined from stote offices of the Soil Conservotion Service in the following stotes:

STATE	ADDRESS
Aloska	Room 129, 2221 Eost Northern Lights Blvd., Anchoroge, Alosko 99504
Arizono	Room 3008, 6029 Federol Building, Phoenix, Arizono 85025
Colorodo (N. Mex.)	P. O. Box 17107, Denver, Colorodo 80217
Idoho	Room 345, 304 N. 8th. St., Boise, Idoho 83702
Montono	P.O. Box 98, Bozeman, Montono 59715
Nevodo	P. O. Box 4850, Reno Nevodo 89505
Oregon	1220 S.W. Third Ave., Portlond, Oregon 97204
Utoh	4012 Federol Bldg., 125 South Stote St., Salt Lake City, Utoh 84138
Woshington	360 U.S. Court House, Spokone, Woshington 99201
Wyoming	P. O. Box 2440, Cosper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Woter Supply Outlook reports prepored by other ogencies include o report for Colifornio by the Woter Supply Forecost ond Snow Surveys Unit, Colifornio Department of Woter Resources, P. O. Box 388, Socromento, Colifornio 95802 --- ond for British Columbio by the Deportment of Londs, Forests ond Woter Resources, Woter Resources Service, Porlioment Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OR 1976

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
E. DON HUBBLE, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JANUARY 1, 1977

Snow accumulation in the mountains of Idaho prior to January 1, 1977 was practically non-existent. The fall season was one of the driest on record. A general storm over the entire state during the first week of January was the only major one of the season and the water content of the snow is very low. It is very doubtful if future storms will bring the watersheds to a normal condition this year. Soil moisture is poor, reflecting the effect of the below normal precipitation. Carryover storage in the irrigation reservoirs is good to excellent in most areas of the state as a result of the good runoff in 1976.

Based on January 1 snow surveys at key snow courses throughout the state, the water supply outlook for the 1977 irrigation season is quite grim. The snowpack varies from a low of 0% of normal on several watersheds to a high of 56% of average on the Montpelier Creek drainage in southeastern Idaho. This higher percentage is due largely to the fact that snowfall during the first week of January is included in the computations.

In general, approximately 40% of the total winter snowpack is accumulated by January 1. Extremely heavy snowfall and rain will be needed during the rest of the winter season to bring conditions to even a reasonable level.

Twenty three snow courses representing all drainages in Idaho with from 17 to 41 years of data report the lowest January 1 snow water equivalent on record. An analysis of data for these courses based on the 10 lowest years of record indicate that the odds of having a normal snowpack on April 1, 1977 are only 1 chance in 8.

It is quite apparent at this early date that water supplies for hydroelectric power generation will be critical and supplies for irrigation seriously deficient except where adequate carryover storage is available.

Water users and managers should start planning now for the most efficient use of water during the coming season.

COMPARISON of SNOW COVER

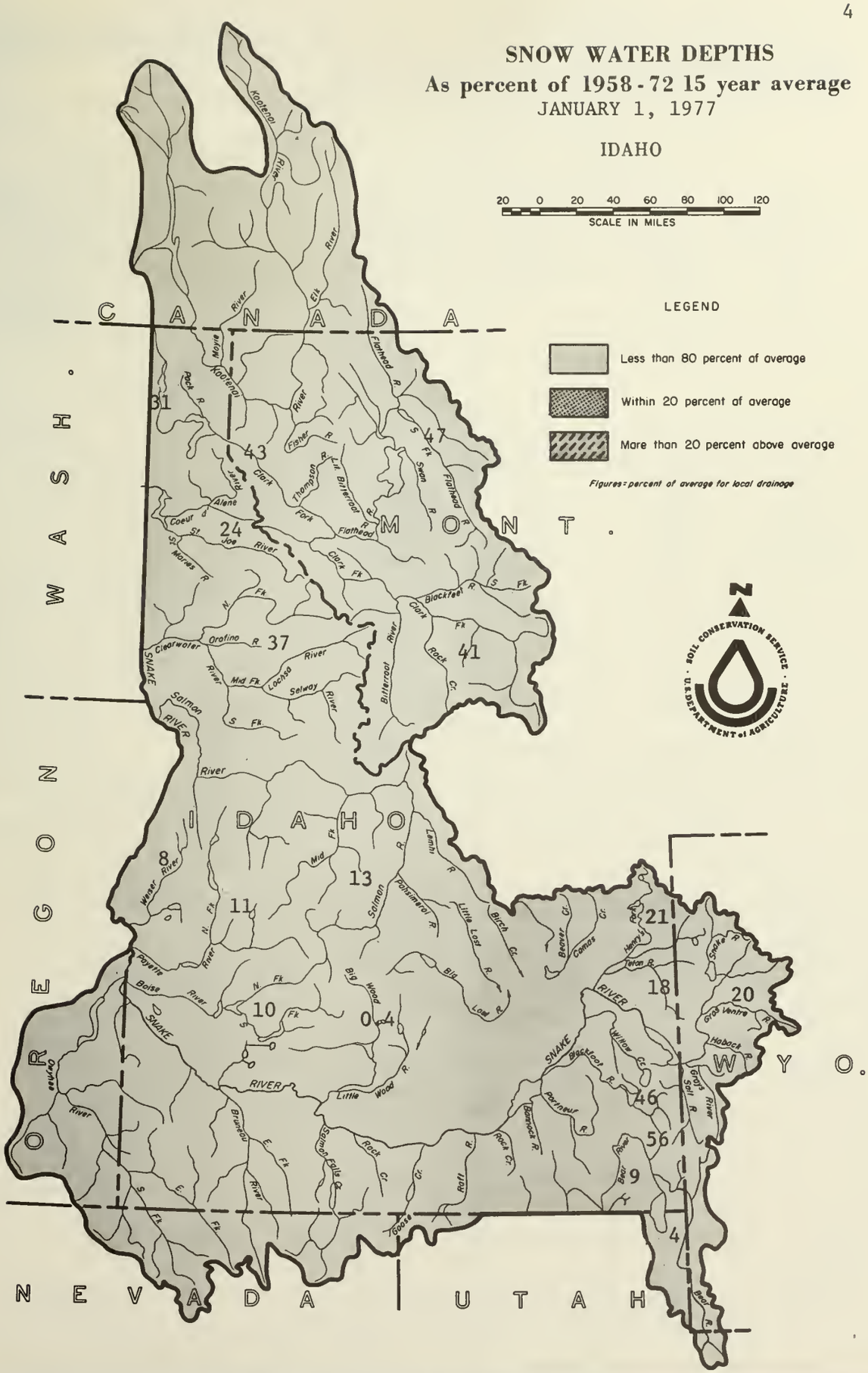
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Pend Oreille River	38	37	43
Clark Fork River	28	31	41
Flathead River	10	54	47
Priest River	4	48	31
Spokane River	2-4	43	24
LOWER SNAKE RIVER BASIN			
Clearwater River	4-11	28	37
Salmon River	9-10	12	13
MIDDLE SNAKE RIVER BASIN - Northside			
Big Wood River	3	0.4	0.4
Boise River	4-6	17	10
Payette River	7-8	12	11
Weiser River	1	11	8
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	12	--	20
Henrys Fork River	6-7	14	21
Teton River	2-3	12	18
Blackfoot River	1-2	37	46
GREAT BASIN			
Bear River	6	3	4
Montpelier Creek	4	52	56
Mink Creek	1	0.6	9
Cub River	3	4	--

SNOW WATER DEPTHS

As percent of 1958-72 15 year average

JANUARY 1, 1977

IDAHO



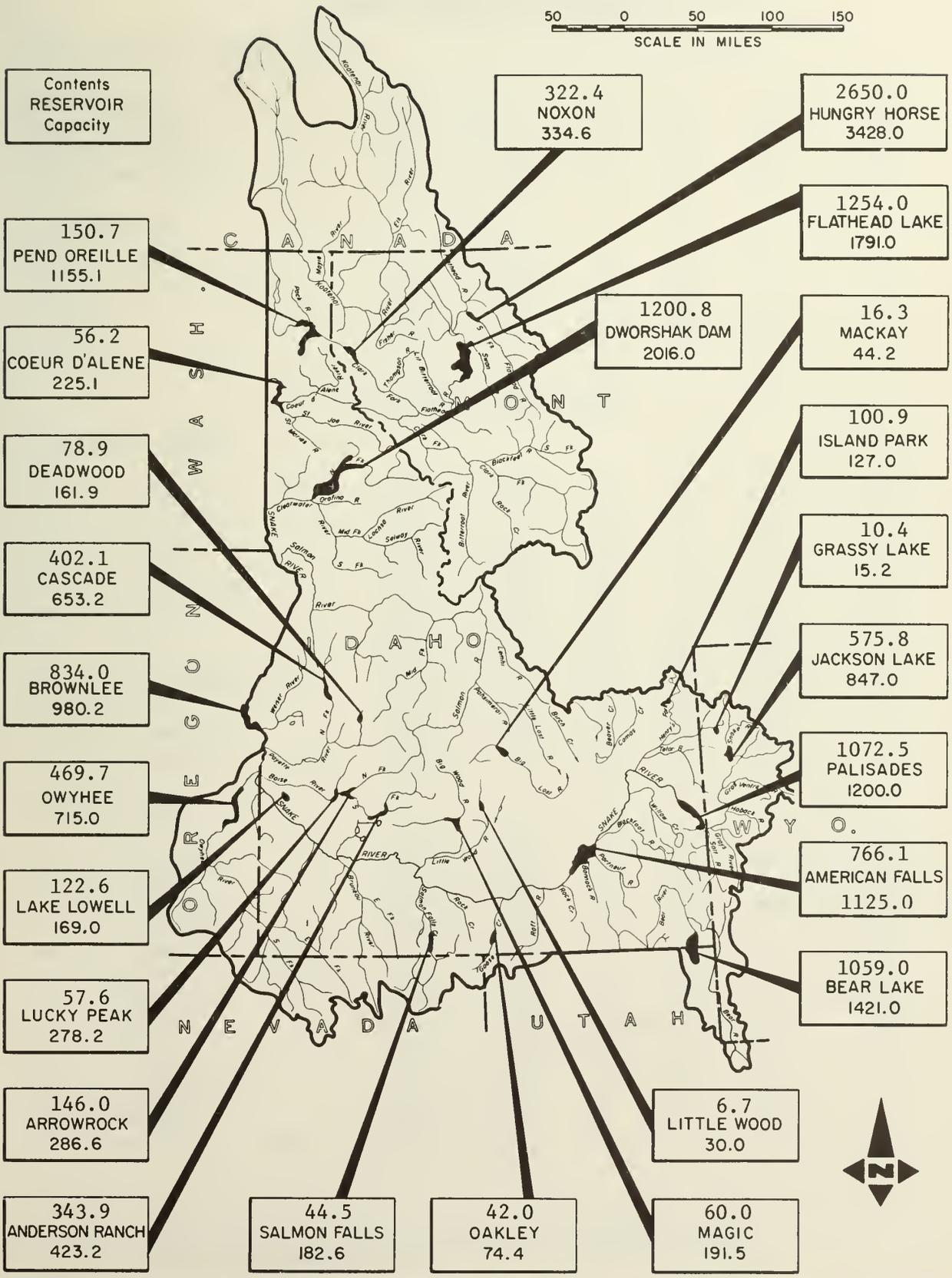
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2650.0	2953.0	2766.0
Flathead	1791.0	1254.0	1462.0	1423.0
Pend Oreille	1155.1	150.7	427.0	431.2
Noxon	334.6	322.4	295.5	325.5
Spokane				
Coeur d'Alene	225.1	56.2	195.2	138.2
SNAKE BASIN				
Snake				
Jackson Lake	847.0	575.8	617.9	531.5
Palisades	1200.0	1072.5	1017.9	751.3
American Falls	1125.0	766.1	856.0	448.4
Island Park	127.0	100.9	108.2	82.0
Grassy Lake	15.2	10.4	10.4	9.6
Brownlee	980.2	834.0	960.7	792.7*
Goose-Trapper Creeks				
Oakley	74.4	42.0	40.9	12.6
Salmon Falls Creek				
Salmon Falls	182.6	44.5	109.0	25.5
Big Lost				
Mackay	44.2	16.3	18.8	27.7
Big Wood				
Magic	191.5	60.0	116.2	88.5
Little Wood				
Little Wood	30.0	6.7	13.8	11.6
Fish Creek				
Carey Valley	14.4	4.3	5.8	--
Boise				
Anderson Ranch	423.2	343.9	325.7	278.0
Arrowrock	286.6	146.0	264.2	204.9
Lucky Peak	278.2	57.6	38.1	60.3
Lake Lowell (Deer Flat)	169.0	122.6	125.7	106.3
Owyhee				
Owyhee	715.0	469.7	593.2	406.8
Payette				
Cascade	653.2	402.1	499.8	354.0
Deadwood	161.9	78.9	85.4	68.0
Weiser				
Mann Creek	11.1	2.7	4.1	--
Clearwater				
Dworshak	2016.0	1200.8	1230.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1059.0	1095.2	944.4

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)



SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	1/3	7	1.5	0.0	3.5
Benton Spring	4900	1/3	12	2.4	2.6	8.4
Schweitzer Bowl	4500	12/29	21	5.0	8.8	14.3*
Schweitzer Ridge	6100	12/29	25	5.8	19.2	21.6*
SPOKANE RIVER						
Above Burke	4100	12/30	24	5.3	8.4	--
Fourth of July Summit	3200	12/30	0	0.0	T	4.1*
Lookout	5120	12/30	24	4.8	11.8	15.5
Sherwin	3200	1/4	14	1.9	7.9	--
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Cayuse Airstrip	3700	12/29	14	1.6	4.8	5.5*
Cottonwood Butte	5140	1/4	9	0.7	6.3	--
Crater Meadows	6100	12/29	35	7.1	21.2	--
Crooked Fork	3600	12/29	16	2.6	6.7	--
Fish Lake Airstrip	5000	12/29	33	6.3	--	17.6*
Hemlock Butte	5500	12/29	32	6.5	25.8	--
Lolo Pass	5240	12/28	26	4.2	13.8	11.7*
Lower Snowhaven	5300	1/4	22	2.0	9.7	--
Pierce Ranger Station	3170	1/3	15	2.4	5.6	4.5
Savage Pass	6170	12/29	23	3.9	14.4	--
Shanghai Summit	4600	12/29	19	3.1	8.9	--
Upper Snowhaven	5600	1/4	19	1.7	8.8	--
SALMON RIVER						
Big Creek Summit	6600	12/30	10	1.8	16.0	13.8*
#Boulder Creek	5500	12/30	7	0.8	7.2	10.0*
Brundage Mountain	7560	12/30	10	2.2	21.8	18.6*
#Deadwood Summit	7000	12/29	11	1.7	--	24.4*
#Galena Summit	8795	12/27	7	1.0	11.4	10.4
#Gibbons Pass Mont.	7100	12/29	18	3.8	11.5	9.5
Mill Creek Summit	8870	12/30	8	1.0	12.6	10.5*
Moose Creek	6200	Not measured			9.6	5.6*
Morgan Creek	7580	12/29	5	0.6	6.3	5.9*
#Rock Flat Summit	5200	12/30	8	1.0	5.5	6.8
#Secesh Summit	6520	12/26	12	1.7	15.7	--
#Squaw Meadow	5800	12/26	11	1.3	14.0	--
Vienna Mine	8960	12/29	9	1.1	--	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Last Year	Average [b]
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
BIG LOST RIVER						
White Knob	7700	12/29	0	0.0	2.4	3.6
BIG WOOD RIVER						
Galena	7300	12/27	0	0.0	7.7	8.0
Galena Summit	8795	12/27	7	1.0	11.4	10.4
Graham Ranch	6200	12/27	0	0.0	4.2	5.6
#Vienna Mine	8960	12/29	9	1.1	--	--
BOISE RIVER						
Atlanta Summit	7500	12/29	4	0.7	--	15.2*
Bad Bear	5500	1/4	9	0.9	5.4	6.5*
#Bogus Basin	6120	1/5	14	1.7	7.5	9.3
Bogus Basin Road	5360	1/5	7	0.9	1.9	2.4*
Graham Guard Station	5690	12/29	5	0.7	--	--
Jackson Peak	7000	12/29	7	1.0	--	--
Moores Creek Summit	6100	1/4	14	1.9	16.7	13.0
Trinity Mountain	7780	12/29	3	0.5	--	19.1*
#Vienna Mine	8960	12/29	9	1.1	--	--
PAYETTE RIVER						
#Big Creek Summit	6600	12/30	10	1.8	16.0	13.8*
Bogus Basin	6120	1/5	14	1.7	7.5	9.3
#Brundage Mountain	7560	12/30	10	2.2	21.8	18.6*
Cozy Cove	5400	12/29	7	1.0	--	6.9
Crawford Ranger Station	4800	12/30	0	0.0	0.0	3.1*
Deadwood Summit	7000	12/29	11	1.7	--	24.4*
#Jackson Peak	7000	12/29	7	1.0	--	--
Lake Fork	6000	12/26	10	1.2	6.5	--
Rock Flat Summit	5200	12/30	8	1.0	5.5	6.8
Secesh Summit	6520	12/26	12	1.7	15.7	--
Squaw Meadow	5800	12/26	11	1.3	14.0	--
WEISER RIVER						
Boulder Creek	5500	12/30	7	0.8	7.2	10.0*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average b/
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Howell Canyon		8000	12/28	0	0.0	12.3	9.9
OWYHEE RIVER							
#Seventy-six Creek	Nev.	7100	12/28	0	0.0	3.0	6.2*
Silver City		6400	12/30	0	0.0	4.6	5.6*
South Mountain		6340	12/30	0	0.0	4.8	4.9*
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	12/29	0	0.0	4.3	4.3
HENRYS FORK RIVER							
Big Springs		6400	12/31	10	1.8	10.5	7.8
Grassy Lake	Wyo.	7265	12/29	24	3.5	22.9	14.1
Island Park		6315	12/31	8	1.4	8.8	6.1
Sawtell Mountain		8720	12/31	15	1.5	17.1	14.0*
Targhee Pass		7000	12/31	11	2.0	8.2	6.5*
Valley View		6500	12/31	8	1.4	7.8	6.3
White Elephant		7700	12/31	11	0.7	14.0	--
TETON RIVER							
Darby Canyon	Wyo.	8250	12/27	19	3.4	--	--
Freds Mountain	Wyo.	8150	12/27	17	2.9	17.5	--
Garns Mountain		8300	12/27	17	3.2	--	--
Indian Meadows	Wyo.	8240	12/27	21	3.8	--	--
Jackpine Creek	Wyo.	7350	12/27	11	1.4	--	--
McRenolds Reservoir		6800	12/27	10	1.1	--	--
Miles Creek	Wyo.	7300	12/27	10	1.5	--	--
Pine Creek Pass		6750	12/27	7	1.0	12.6	6.6*
State Line		6650	12/27	7	1.2	10.9	5.7
BLACKFOOT RIVER							
Slug Creek Divide		7225	1/4	16	3.3	7.1	--
Somsen Ranch		7000	1/5	21	2.4	8.2	5.2*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	12/27	7	0.8	12.4	9.2*
Montpelier Creek						
Giveout	6840	1/4	14	2.8	6.0	4.6*
Little Beaver	6970	1/4	14	2.8	6.6	5.4*
Montpelier Creek	6570	1/4	10	1.7	3.0	3.5*
Whiskey Flat	6985	1/4	12	2.4	3.1	3.7*
Mink Creek						
Dry Basin	7900	12/27	8	0.9	--	--
#Emigrant Summit	7350	12/27	7	0.8	12.4	9.2*
Horseshoe Basin	8000	12/27	8	0.9	--	--
Liberty Spring	8600	12/27	9	1.1	--	--
Cub River						
Cub River R.S.	5400	12/27	0	0.0	4.3	--
#Franklin Basin	8000	12/27	7	0.8	10.0	--
Willow Flat	6100	12/27	0	0.0	6.6	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

1.573
136wi

WATER SUPPLY OUTLOOK FOR IDAHO

The Library of the
MAR 15 1977
University of Illinois
at Urbana-Champaign

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
FEB. 1, 1977

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OR 1976

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
E. DON HUBBLE, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL STATEMENT FOR FEBRUARY 1, 1977

The water supply outlook for Idaho is projected to be extremely low for the 1977 runoff season. Selected forecasts of seasonal runoff vary from a low of 12 percent of normal for the Bear River at Harer to a high of 60 percent of average for the Kootenai River at Leonia. Many of the forecasts represent minimum of record flows.

Snow pack accumulation as of February 1, 1977 was at an all time low, even on courses with over forty years of record. Snow cover varies from a low of 6 percent of average on the Raft River watershed to a high of 41 percent of normal on the Kootenai drainage.

In general, approximately 70 percent of the total winter snowfall is accumulated by February 1. Even with extremely heavy snowfall and rain during the remainder of the season there is only a very very remote chance of attaining an average runoff situation for the coming season.

The winter of 1976-77 continues to be one of the driest on record with October through January precipitation ranging from 10 to 40 percent of normal over the entire state. Soil moisture is poor throughout Idaho.

As of the end of January, streamflow had dropped well below normal on nearly all streams in the state. The smaller streams are especially low at this time.

Stored water in the irrigation reservoirs as of February 1 was 132 percent of normal for the Upper Snake, 131 percent on the Southern Tributaries, 73 percent on the Lost and Wood drainages and 103 percent on the Boise and Payette River systems.

The latest 30 day forecast from the National Weather Service calls for below normal precipitation through the end of February.

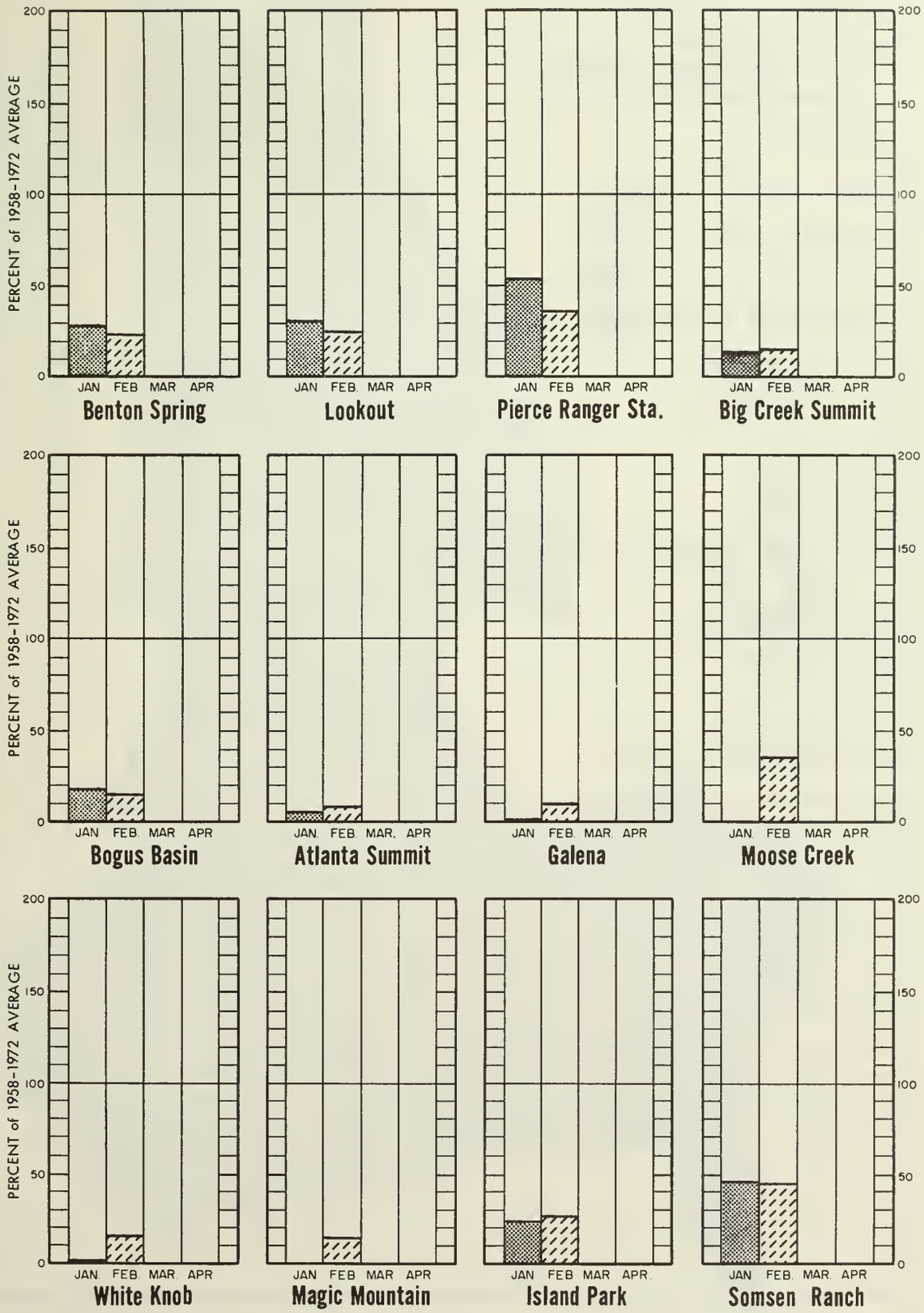
This deteriorating situation, combined with low snowpack, dry soils, low flows and only fair carryover reservoir storage portends an extremely low runoff during 1977 .

It is apparent critical irrigation shortages will be experienced on small streams and those without storage facilities, and shortages may be felt even on systems normally having adequate storage.

Farmers, ranchers and other water users should make plans now to efficiently manage, utilize and conserve the water supplies available in 1977.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

FEBRUARY 1, 1977



COMPARISON of SNOW COVER

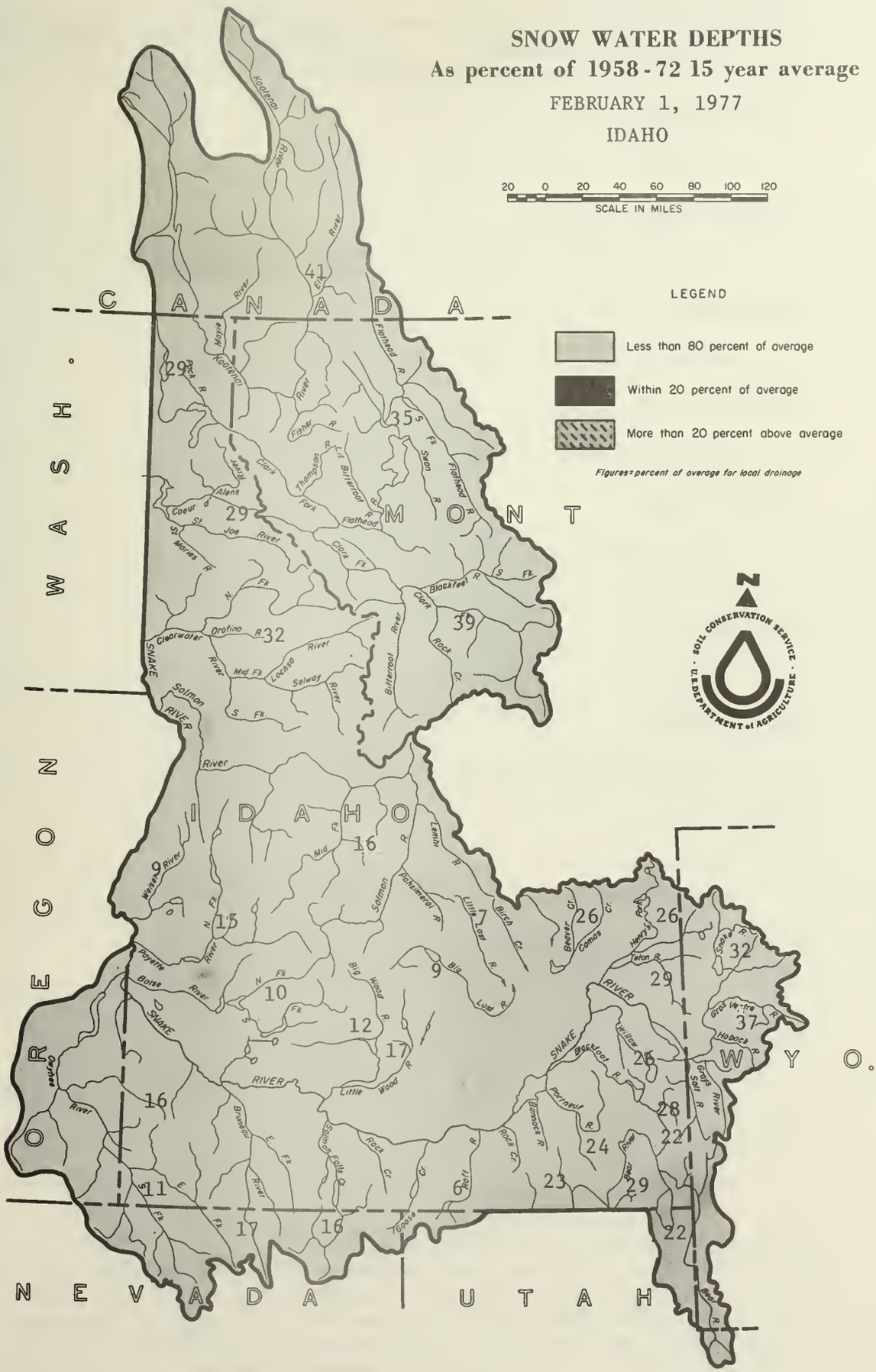
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	22	42	41
Pend Oreille River	40	35	38
Clark Fork River	32	34	39
Flathead River	8	33	35
Priest River	4	42	29
Spokane River	3-4	35	29
LOWER SNAKE RIVER BASIN			
Clearwater River	8-12	28	32
Salmon River	12	17	16
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	1	12	7
Big Lost River	4-6	21	9
Little Wood River	3-4	26	17
Big Wood River	7-8	14	12
Boise River	12	11	10
Payette River	10-12	17	15
Weiser River	1	11	9
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	1	6	6
Salmon Falls Creek	8-9	15	16
Bruneau River	4	18	17
Owyhee River	5	13	11
Jordan Creek	2	19	16
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	28	27	34
Camas-Beaver Creeks	2	28	26
Henrys Fork River	6-7	24	26
Teton River	2-11	26	29
Willow Creek	5-9	22	26
Blackfoot River	3-4	28	28
Portneuf River	4	23	24
GREAT BASIN			
Bear River	14	25	22
Montpelier Creek	4-6	26	22
Mink Creek	7	26	24
Cub River	2-3	24	29
Malad River	4	--	23

SNOW WATER DEPTHS

As percent of 1958-72 15 year average

FEBRUARY 1, 1977

IDAHO



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
KOOTENAI RIVER						
Leonia	(at)	5400	60	Apr-Sep	--	9073
SPOKANE RIVER						
Post Falls 1/	(at)	1200	40	Apr-Sep	--	3008
SNAKE RIVER						
Heise 2/	(nr)	2050	52	Apr-Sep	--	3946
BIG LOST RIVER						
Mackay 3/	(nr)	45	25	Apr-Sep	--	183
BIG WOOD RIVER						
Magic Reservoir Inflow		80	25	Apr-Sep	--	301
BOISE RIVER						
Boise 4/	(nr)	400	25	Apr-Sep	--	1612
PAYETTE RIVER						
Horseshoe Bend 5/	(nr)	700	38	Apr-Sep	--	1850
OWYHEE RIVER						
Lake Owyhee		110	22	Feb-Jul	--	510
net inflow 6/		70	21	Apr-Sep	--	332
SALMON RIVER						
Whitebird	(at)	3100	45	Apr-Sep	--	6959
CLEARWATER RIVER						
Spalding	(at)	4100	48	Apr-Sep	--	8605
BEAR RIVER						
Harer	(at)	32	12	Apr-Sep	--	271

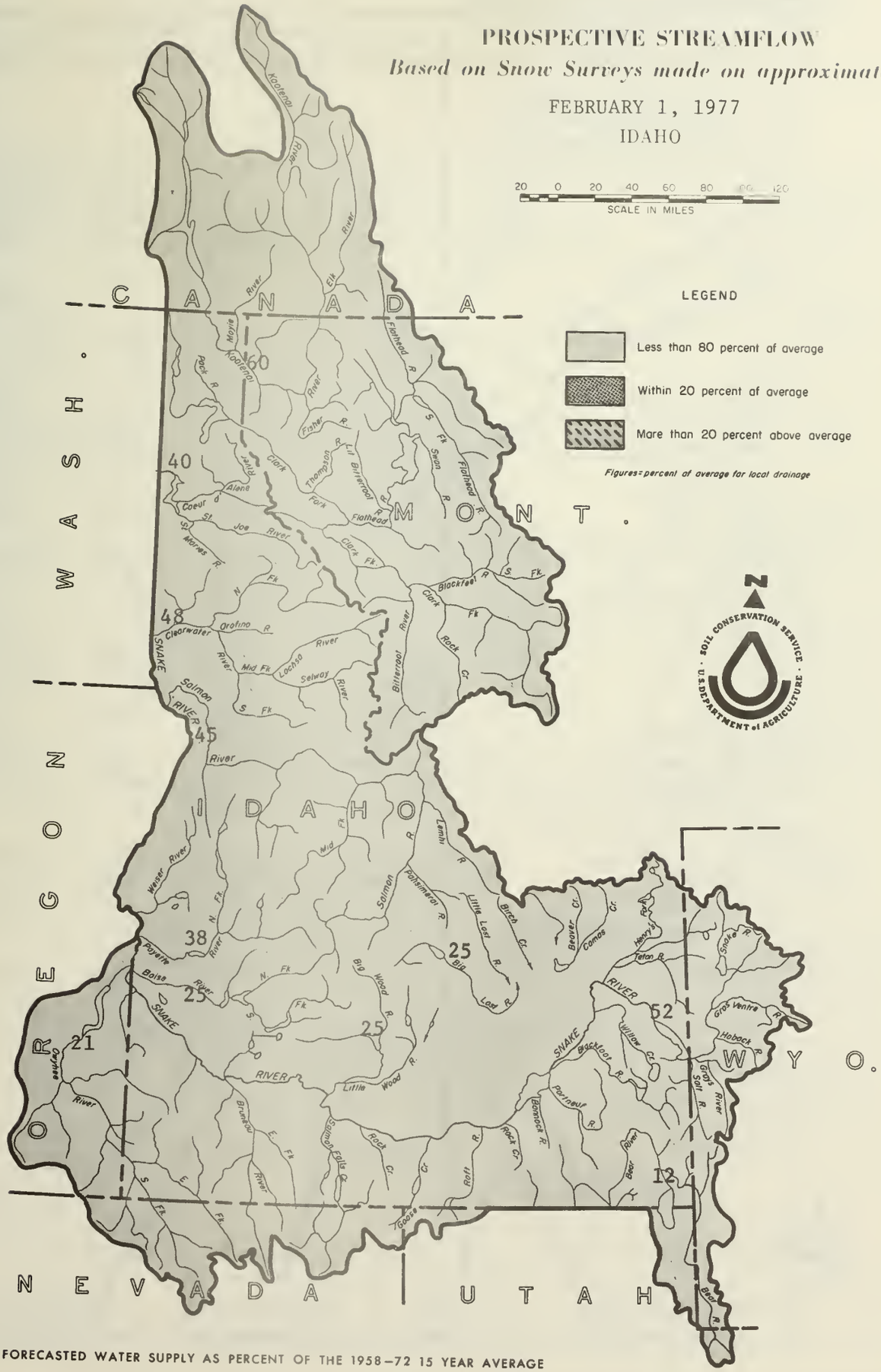
(c) Assuming normal meteorological conditions.
1/ Observed flow corrected for storage in Coeur d'Alene Lake. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Cascade and Deadwood Reservoirs. 6/ U.S.B.R. records of inflow.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

FEBRUARY 1, 1977

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958–72 15 YEAR AVERAGE

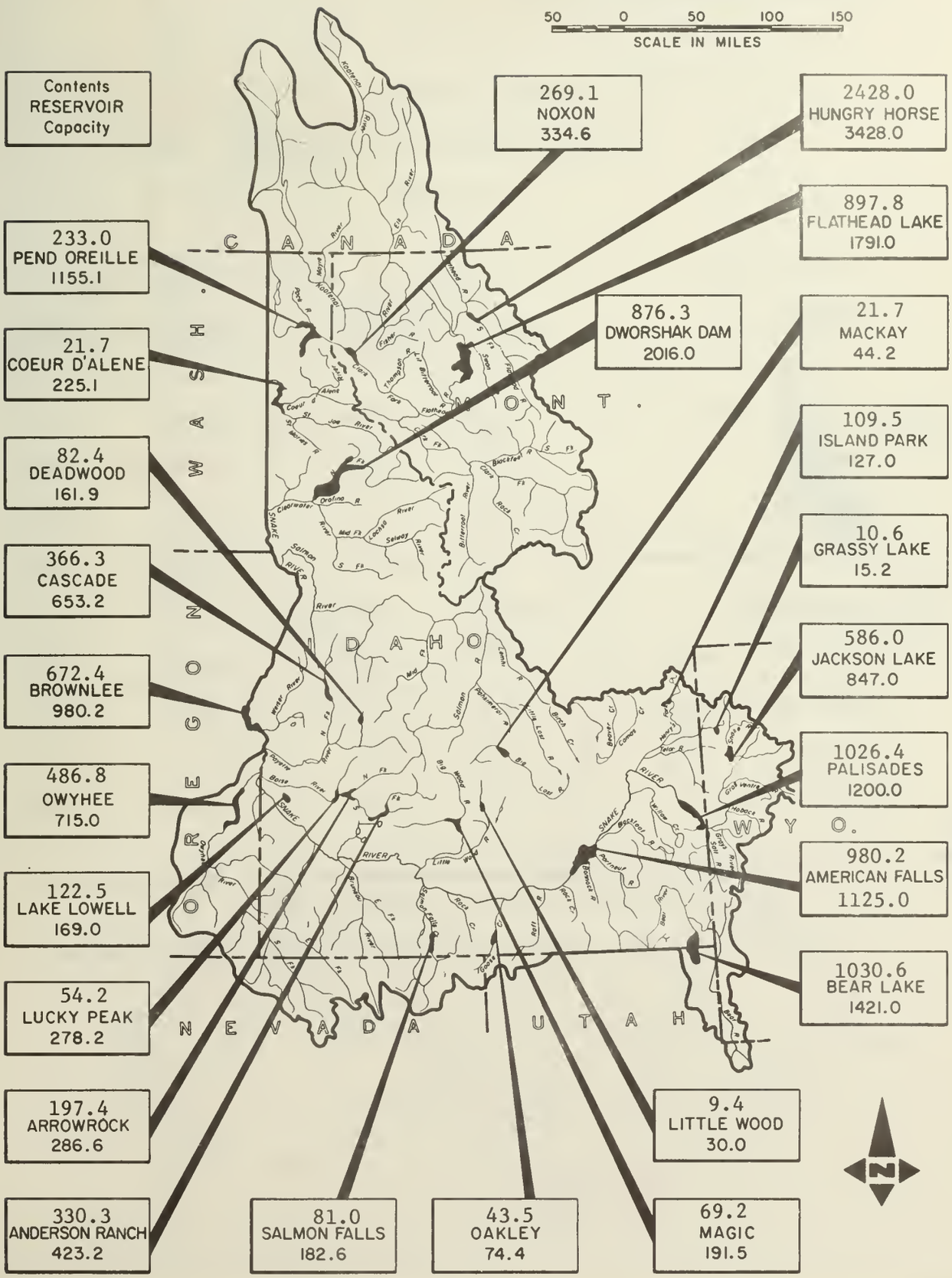
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2428.0	2768.0	2484.0
Flathead	1791.0	897.8	1249.0	1246.0
Pend Oreille	1155.1	233.0	486.0	438.2
Noxon	334.6	269.1	303.5	320.8
Spokane				
Coeur d'Alene	225.1	21.7	169.1	138.4
SNAKE BASIN				
Snake				
Jackson Lake	847.0	586.0	627.2	540.9
Palisades	1200.0	1026.4	970.3	782.1
American Falls	1125.0	980.2	931.3	623.6
Island Park	127.0	109.5	100.5	99.9
Grassy Lake	15.2	10.6	10.6	10.0
Brownlee	980.2	672.4	826.9	636.1*
Goose-Trapper Creeks				
Oakley	74.4	43.5	43.0	15.7
Salmon Falls Creek				
Salmon Falls	182.6	81.0	110.0	29.2
Big Lost				
Mackay	44.2	21.7	23.7	29.9
Big Wood				
Magic	191.5	69.2	126.0	92.8
Little Wood				
Little Wood	30.0	9.4	17.4	13.5
Fish Creek				
Carey Valley	14.4	5.5	6.5	--
Boise				
Anderson Ranch	423.2	330.3	276.6	257.1
Arrowrock	286.6	197.4	278.5	240.4
Lucky Peak	278.2	54.2	64.4	92.7
Lake Lowell (Deer Flat)	169.0	122.5	126.1	114.0
Owyhee				
Owyhee	715.0	486.8	622.0	407.7
Payette				
Cascade	653.2	366.3	458.3	342.1
Deadwood	161.9	82.4	91.5	73.8
Weiser				
Mann Creek	11.1	2.9	5.1	--
Clearwater				
Dworshak	2016.0	876.3	910.1	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1030.6	1072.9	944.9

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)
FEBRUARY 1, 1977



VALLEY PRECIPITATION 1/

Division Averages and Departures

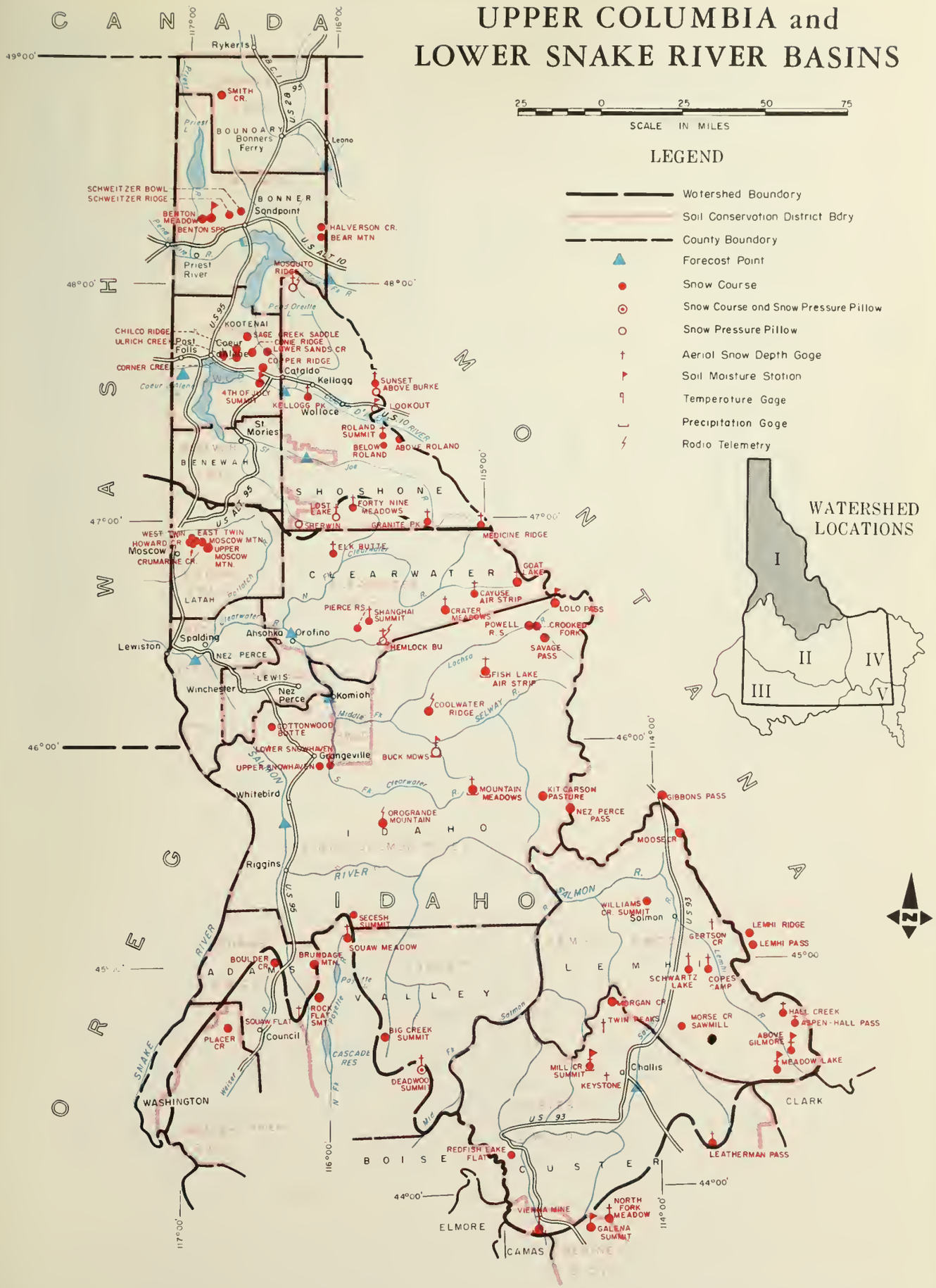
In Inches

DRAINAGE DIVISIONS	Winter January 1977		Fall - Winter Nov. 76 - Jan. 77	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.16	-2.32	3.57	-6.13
Flathead	1.24	-1.61	2.86	-4.60
Clark Fork	0.82	-1.37	2.29	-3.22
Pend Oreille-Spokane	1.06	-3.36	4.28	-7.90
Upper Snake	1.44	-1.19	2.17	-4.57
Snake River Plain	0.37	-0.86	0.53	-2.99
Salmon-Payette-Boise	0.61	-2.69	1.08	-7.23
Clearwater	1.49	-3.25	4.32	-7.73
Owyhee-Malheur	0.54	-0.94	0.88	-3.09

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-1972) drainage division average.

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

KOOTENAI RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE - PRIEST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

HAYDEN CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100

SPOKANE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	5920
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28 & 33	42N	1E	3200
15B9ASP	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

CLEARWATER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 & 9	29N	3E	5600

SALMON RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	34	10N	13E	6570
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E3A	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine	32	6N	14E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	1/25	12	1.7	3.4	6.0
Benton Spring	4900	1/25	15	3.2	6.2	13.8
Schweitzer Bowl	4500	1/27	25	7.0	14.9	22.6*
Schweitzer Ridge	6100	1/27	31	9.8	27.5	32.1*
HAYDEN LAKE						
Chilco Ridge	3650	1/28	10	1.8	--	--
Conie Ridge	3900	1/28	11	2.5	--	--
Corner Creek	3150	1/28	13	2.1	--	--
Sage Creek Saddle	4100	1/28	22	5.2	--	--
SPOKANE RIVER						
Above Burke	4100	1/31	30	7.0	16.1	--
Fourth of July Summit	3200	1/27	10	2.3	5.4	6.8*
Lookout	5120	1/31	29	7.0	23.4	26.4
Sherwin	3200	2/1	16	3.6	11.6	11.0*
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Cayuse Airstrip	3700	1/27	18	3.6	8.5	9.4*
Cottonwood Butte	5140	1/28	9	1.7	10.5	--
Crater Meadows	6100	1/27	47	10.4	31.8	31.2*
Crooked Fork	3600	1/30	18	4.5	12.4	--
Fish Lake Airstrip	5000	1/27	36	8.4	29.6	28.0*
Hemlock Butte	5500	1/27	42	9.9	38.0	32.8*
Lolo Pass	5240	1/30	27	6.6	24.7	22.9*
Lower Snowhaven	5300	1/28	14	3.0	16.0	--
Pierce Ranger Station	3170	1/26	16	3.0	10.8	8.4
Savage Pass	6170	1/27	27	6.0	23.2	19.7*
Shanghai Summit	4600	1/27	26	5.9	16.6	17.8*
Upper Snowhaven	5600	1/28	11	2.4	14.5	--
SALMON RIVER						
Big Creek Summit	6600	1/28	17	3.4	27.2	24.9
#Boulder Creek	5500	1/31	12	1.6	14.0	17.9*
Brundage Mountain	7560	1/28	18	5.2	30.4	34.7*
#Deadwood Summit	7000	2/1	16	3.2	27.5	33.9*
#Galena Summit	8795	2/1	11	2.0	15.0	16.7

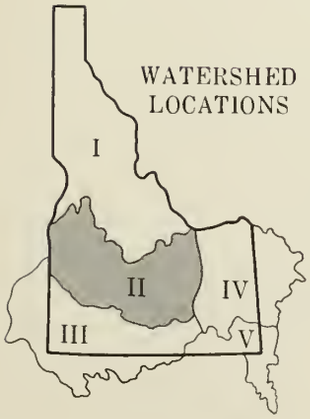
*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
#Gibbons Pass	Mont.	7100	1/27	23	5.9	20.6	16.0
Mill Creek Summit		8870	1/28	12	2.1	17.0	17.8*
Moose Creek		6200	1/31	21	4.2	15.0	11.8
Morgan Creek		7580	1/31	10	1.8	10.6	10.5*
#Rock Flat Summit		5200	1/28	12	3.0	11.8	12.8
#Secesh Summit		6520	1/29	18	4.5	24.5	--
#Squaw Meadow		5800	1/29	19	4.7	22.8	25.0*
Vienna Mine		8960	2/1	15	3.2	24.1	25.4*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE							
LITTLE LOST RIVER							
Wet Creek Summit		7600	1/27	6	0.6	4.8	8.8*
BIG LOST RIVER							
Bear Canyon		7920	1/31	6	1.1	6.0	--
Copper Basin		7650	1/31	0	0.0	2.3	7.3*
Fishpole Lake		9350	1/31	13	3.0	8.0	--
Lost-Wood Divide		7900	1/31	9	2.3	11.9	17.3*
Stickney Mill		7500	1/31	0	0.0	4.0	6.0*
White Knob		7700	1/28	8	1.0	3.5	6.7*
LITTLE WOOD RIVER							
#Bear Canyon		7920	1/31	6	1.1	6.0	--
Garfield Ranger Station		6554	1/31	6	1.2	4.0	7.9*
Muldoon		6300	1/31	8	1.4	3.2	6.2*
Swede Peak		7650	1/31	10	1.7	7.5	11.5*
BIG WOOD RIVER							
#Couch Summit		6950	1/25	9	1.8	9.5	13.8
Galena		7300	2/1	8	1.5	11.2	14.3
Galena Summit		8795	2/1	11	2.0	15.0	16.7
Graham Ranch		6200	2/1	7	1.0	6.9	10.0
#Lost-Wood Divide		7900	1/31	9	2.3	11.9	17.3*
Mascot Mine		7900	1/31	0	0.0	6.8	--
Soldier Ranger Station		6100	1/25	5	1.4	6.5	9.9
#Vienna Mine		8960	2/1	15	3.2	24.1	25.4*
BOISE RIVER							
Atlanta Summit		7500	2/1	11	2.1	20.3	24.9
Bad Bear		5500	1/27	8	1.6	11.8	10.8*
#Bogus Basin		6120	1/28	11	2.3	16.3	17.3
Bogus Basin Road		5360	1/28	0	0.0	6.4	5.9
Couch Summit		6950	1/25	9	1.8	9.5	13.8

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
		LITTLE LOST RIVER				
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7450
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7600
		BIG LOST RIVER				
13F3	I	Bear Canyon	26	5N	21E	7920
13F2A	I	Copper Basin	24	6N	21E	7650
13F8A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	19	6N	19E	7900
14F2A	I	Stickney Mill	9	6N	19E	7500
13F1	I	White Knob	25	7N	23E	7700
		BIG WOOD RIVER				
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12MPS	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100
		LITTLE WOOD RIVER				
13F4	I	Garfield Ranger Station	11	3N	21E	6554
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7650
		FISH CREEK				
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000
		BOISE RIVER				
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5360
14F10	I	Couch Summit	9	2N	14E	6950
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7000
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4900
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780
		CANYON CREEK				
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950
		PAYETTE RIVER				
16F2PS	I	Bogus Basin	16	5N	3E	6120
15E8PSR	I	Cozy Cove	19	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E7	I	Deadwood Dam	8	11N	7E	5290
15E4AS	I	Deadwood Summit	23	14N	7E	7000
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5200
15D1	I	Secesh Summit	34	22N	4E	6520
15D2	I	Squaw Meadow	5	21N	4E	5800
16E3	I	Tripod Summit	17	11N	3E	5200
		WEISER RIVER				
16D1P	I	Boulder Creek	15	20N	1W	5500
16E2	I	Placer Creek	15&16	17N	3W	6000
		MANN CREEK				
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	21	15N	5W	6800
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S.	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average /.
Graham Guard Station	6590	2/1	9	1.7	11.6	--
Jackson Peak	7000	2/1	13	2.2	22.8	23.7*
Moores Creek Summit	6100	1/27	12	2.3	25.6	23.4
Prairie	4900	1/30	4	0.8	7.2	5.5
Road Creek (A)	5550	2/2	0	0.0	--	8.0*
#Soldier Ranger Station	6100	1/25	5	1.4	6.5	9.9
Trinity Mountain	7780	2/1	10	1.8	25.4	30.3
#Vienna Mine	8960	2/1	15	3.2	24.1	25.4*
PAYETTE RIVER						
#Big Creek Summit	6600	1/28	17	3.4	27.2	24.9
Bogus Basin	6120	1/28	11	2.3	16.3	17.3
#Brundage Mountain	7560	1/28	18	5.2	30.4	34.7*
Cozy Cove	5400	2/1	12	1.9	11.2	12.6
Crawford Ranger Station	4800	1/28	8	2.1	4.0	6.8
Deadwood Airstrip	5440	2/1	13	2.2	10.7	11.6
Deadwood Summit	7000	2/1	16	3.2	27.5	33.9*
#Jackson Peak	7000	2/1	13	2.2	22.8	23.7*
Lake Fork	6000	1/29	14	2.8	13.8	--
Rock Flat Summit	5200	1/28	12	3.0	11.8	12.8
Secesh Summit	6520	1/29	18	4.5	24.5	--
Squaw Meadow	5800	1/29	19	4.7	22.8	25.0*
WEISER RIVER						
Boulder Creek	5500	1/31	12	1.6	14.0	17.9*

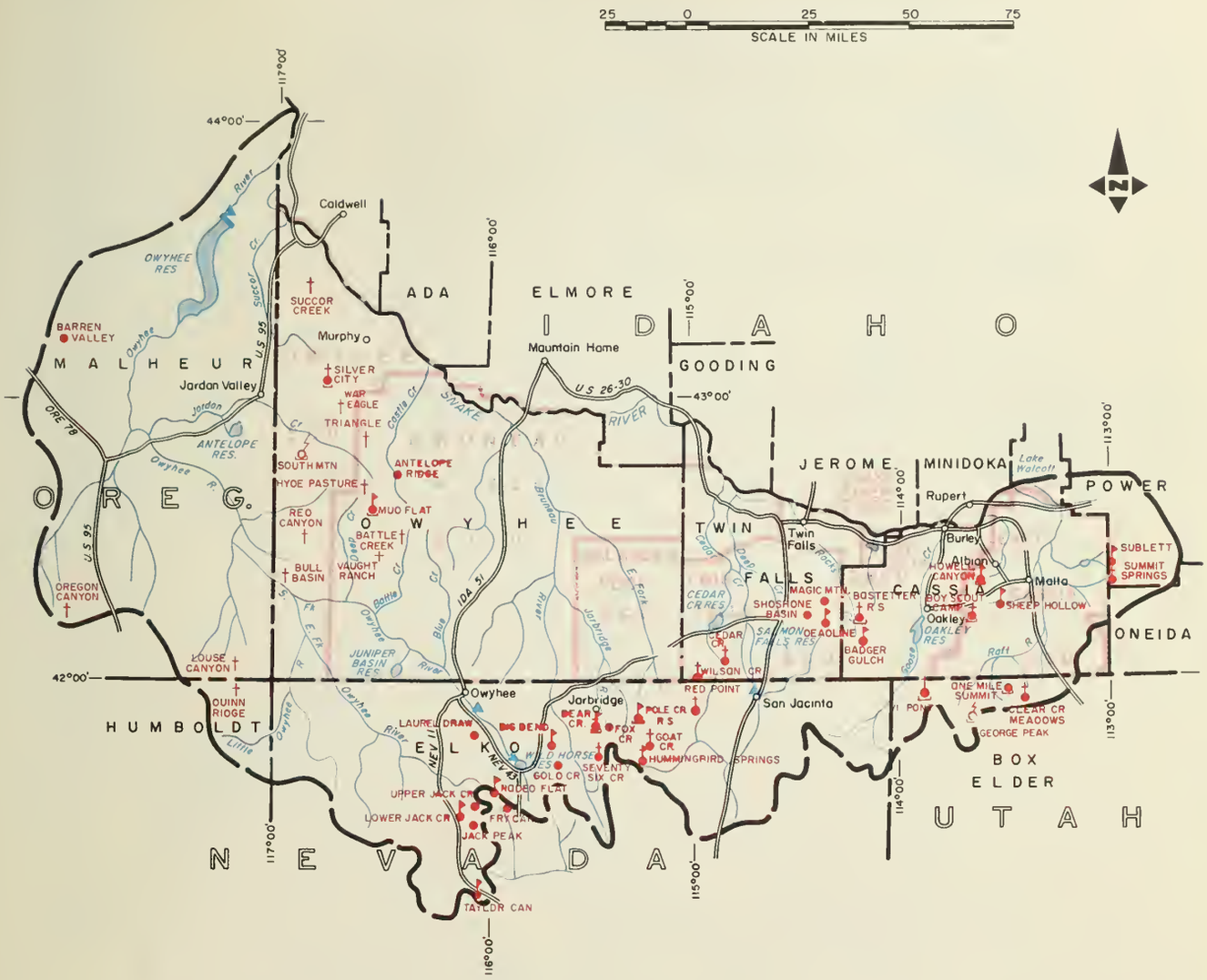
*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Howell Canyon		8000	1/28	6	1.1	19.3	17.4
SALMON FALLS CREEK							
#Bear Creek (A)	Nev.	7800	1/31	9	1.9	11.6	13.0
Cedar Creek (A)		7000	1/31	0	0.0	6.9	6.4
Deadline		6900	1/29	10	1.8	14.2	15.6
Goat Creek	Nev.	8800	1/29	9	1.8	9.8	11.4
#Hummingbird Springs (A)	Nev.	8945	1/31	18	3.9	12.7	14.4
Magic Mountain		6700	1/29	8	1.6	12.3	12.3
#Pole Creek R.S.	Nev.	8330	1/29	15	3.3	13.4	12.3
Shoshone Basin		5740	1/29	0	0.0	5.0	3.8*
Wilson Creek (A)		7500	1/31	0	0.0	7.7	--
BRUNEAU RIVER							
Bear Creek (A)	Nev.	7800	1/31	9	1.9	11.6	13.0
Hummingbird Springs (A)	Nev.	8945	1/31	18	3.9	12.7	14.4
Pole Creek Rgr. Sta.	Nev.	8330	1/29	15	1.6	13.4	12.3
#Seventy-six Creek (A)	Nev.	7100	1/31	6	0.6	5.8	7.6
OWYHEE RIVER							
#Bear Creek	Nev.	7800	1/31	9	1.9	11.6	13.0
Red Canyon (A)		6650	2/1	3	0.4	5.0	5.4
#Seventy-six Creek (A)	Nev.	7100	1/31	6	0.6	5.8	7.6
Silver City		6400	1/31	8	2.0	9.1	11.1*
South Mountain		6340	1/29	6	1.2	8.0	9.0

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR ANO	RGE. / LONG.	ELEV.
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	.40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N½ 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE ANO SOIL MOISTURE STATION.
10J7A	SNOW COURSE ANO AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION ANO PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

UPPER SNAKE RIVER BASIN

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11E9	I	Big Springs	34	14N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	29	13N	43E	6315
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6500
11E36	I	White Elephant	17	14N	43E	7700

TETON RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400

CAMAS - BEAVER CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11F10	I	Aspen Grove	35	2N	41E	6600
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	33	2S	41E	6510
11F5R	I	Tex Creek	6	1S	42E	6700

SAND CREEK

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11F6	I	Henry Creek	7	1S	39E	5650

BLACKFOOT RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250

PORTNEUF RIVER

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
12G5	I	Dempsey Creek	17	10S	38E	6280
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average b
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	2/1	8	1.9	6.3	7.4
Kilgore		6200	1/27	12	2.1	7.9	7.9
HENRYS FORK RIVER							
Big Springs		6400	1/31	23	3.4	15.3	14.4
Grassy Lake	Wyo.	7265	1/31	38	9.9	34.4	23.2
Island Park		6315	1/31	21	3.1	12.9	11.6
Sawtell Mountain		8720	1/31	26	5.1	22.2	26.1*
Targhee Pass		7000	1/31	20	2.6	11.1	12.0*
Valley View		6500	1/31	20	2.2	12.0	12.3
White Elephant		7700	1/31	24	4.1	18.6	--
TETON RIVER							
Darby Canyon	Wyo.	8250	1/28	27	6.3	20.8	--
Freds Mountain	Wyo.	8150	1/28	28	7.0	23.0	--
Garns Mountain		8300	1/28	30	7.8	36.2	--
Indian Meadows	Wyo.	8240	1/28	35	8.4	34.3	--
Jackpine Creek	Wyo.	7350	1/28	22	5.0	22.0	--
McRenolds Reservoir		6800	1/28	24	5.2	18.6	--
Miles Creek	Wyo.	7300	1/28	18	3.8	11.0	--
Phillips Bench	Wyo.	8200	1/28	30	7.9	22.8	--
Pine Creek Pass		6750	1/28	18	3.5	16.3	11.5*
State Line		6650	1/28	16	2.7	12.8	9.9
Teton Pass W.S.	Wyo.	8400	1/28	24	6.1	23.0	--
WILLOW CREEK							
Aspen Grove		6600	1/27	13	2.5	10.0	8.1*
Birch Creek		6800	1/27	12	2.2	8.3	7.5*
Blue Ridge		6800	1/27	14	2.7	13.2	--
Bone		6200	1/27	8	1.5	6.4	6.2*
Brockman Station		6430	1/27	10	1.7	8.5	--
Hell Creek		7100	1/27	13	2.2	12.5	--
Mud Creek		7150	1/27	12	3.2	11.0	--
Sheep Mountain		6510	1/27	13	2.1	11.6	10.0*
Tex Creek		6700	1/27	11	1.6	8.6	6.2*
SAND CREEK							
Henry Creek		5650	1/27	10	2.0	3.5	3.1*

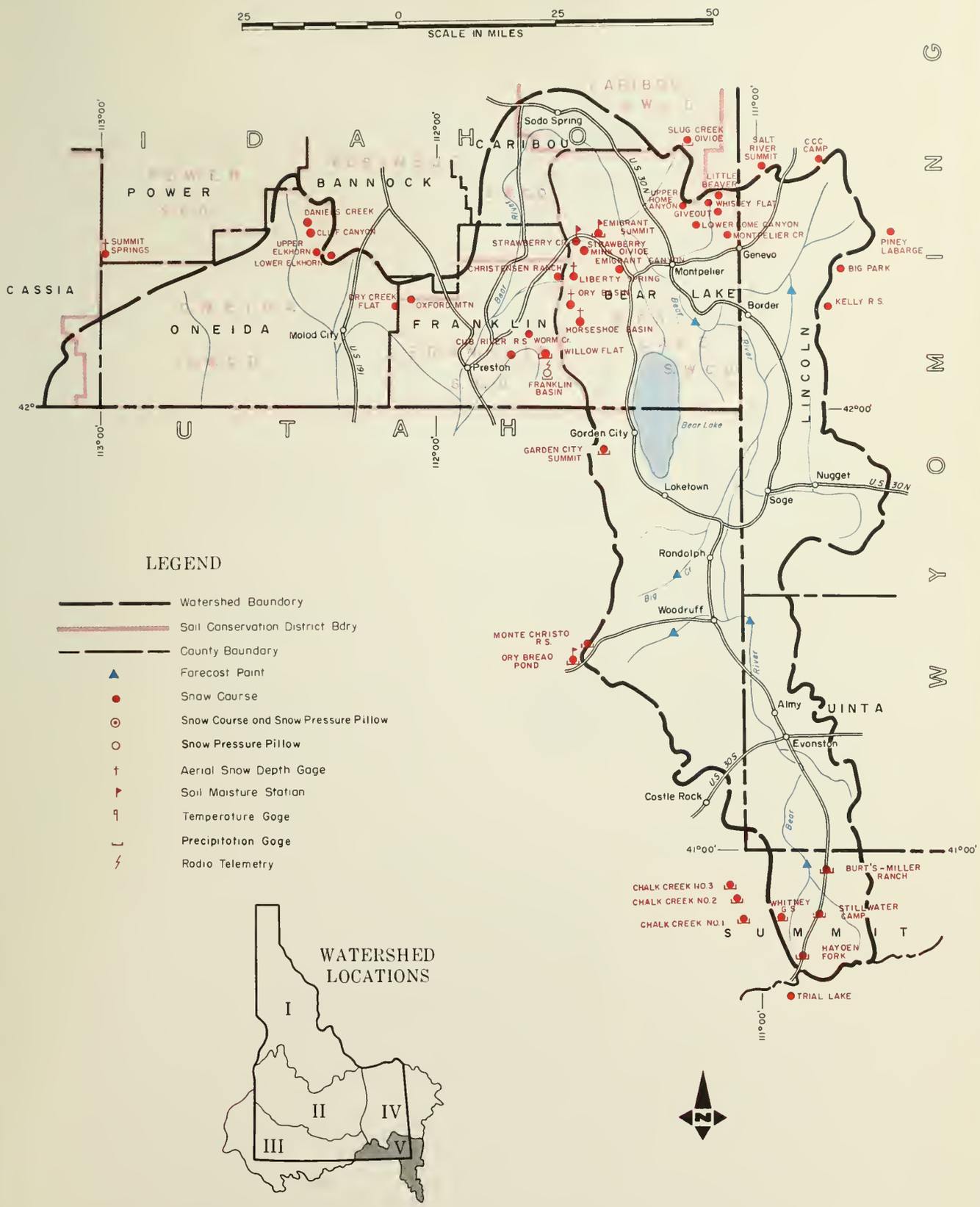
*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	1/28	10	1.6	6.2	6.0
Slug Creek Divide	7225	2/1	14	2.9	12.0	11.5*
Somsen Ranch	7000	1/28	16	3.1	11.4	9.2
Ten Mile Pass	6250	1/28	11	2.1	4.9	--
PORTNEUF RIVER						
Dempsey Creek	6280	2/1	12	2.4	8.6	7.9
Lower Pebble	5800	2/1	14	2.5	10.0	9.3*
Mink Creek	6300	2/1	14	2.8	14.4	11.6*
Pebble Creek	6550	2/1	10	2.0	9.7	11.0
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	1/31	17	3.4	15.0	17.0*
Emigration Canyon	6500	1/31	12	2.5	6.9	7.8*
Montpelier Creek						
Giveout	6840	1/31	13	2.0	8.4	8.7*
Little Beaver	6970	1/31	13	2.4	10.7	10.9*
Lower Home Canyon	7500	2/1	15	3.0	10.3	--
Montpelier Creek	6570	2/1	9	1.3	4.4	6.0*
Upper Home Canyon	8500	2/1	21	4.3	17.1	--
Whiskey Flat	6985	1/31	9	1.6	5.2	6.9*
Mink Creek						
Christensen Ranch	5600	1/25	13	2.2	6.1	5.9
Dry Basin	7900	1/25	20	4.3	16.7	20.9*
#Emigrant Summit	7350	1/31	17	3.4	15.0	17.0*
Horseshoe Basin	8000	1/25	19	4.1	14.7	17.3*
Liberty Spring	8600	1/25	24	5.5	24.4	22.6*
Strawberry Creek	5800	1/31	11	2.2	6.6	7.2
Strawberry Mink Divide	6800	1/25	16	3.1	12.3	14.4
Cub River						
Cub River R.S.	5400	1/25	14	2.4	7.7	5.8
#Franklin Basin	8000	1/25	18	3.8	17.6	--
Willow Flat	6100	1/25	13	2.3	10.7	10.5
Worm Creek	6660	1/25	13	2.6	--	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

GREAT BASIN


25 0 25 50
SCALE IN MILES
I D A H O
W Y O M I N G
U T A H
POWER
BANNOCK
CARIBOU
CASSIA
ONEIDA
FRANKLIN
BEAR LAKE
LINCOLN
UINTA
SUMMIT
Sodo Spring
SLUG CREEK OIVIOE
SALT RIVER SUMMIT
CCC CAMP
LITTLE BEAVER
UPPER HOME CANYON
GIVEOUT
WHISKEY FLAT
LOWER HOME CANYON
MONTPELIER CR
Genevo
PINEY LABARGE
BIG PARK
KELLY R S
DANIELS CREEK
CLIFF CANYON
UPPER ELKHORN
LOWER ELKHORN
SUMMIT SPRINGS
STRAWBERRY CR
EMIGRANT SUMMIT
STRAWBERRY
MINK OIVIOE
EMIGRANT CANYON
CHRISTENSEN RANCH
LIBERTY SPRING
ORY BEAR
Montpelier
Border
DRY CREEK FLAT
OXFORD MTN
Molod City
HORSESHOE BASIN
CUB RIVER R S
WORM Cr.
WILLOW FLAT
Preston
FRANKLIN BASIN
Bear Lake
Gorden City
GARDEN CITY SUMMIT
Loketown
Nugget
Soge
Rondolph
Woodruff
MONTE CHRISTO R S.
ORY BREAO POND
Almy
Evonston
Costle Rock
BURT'S-MILLER RANCH
CHALK CREEK NO.3
CHALK CREEK NO.2
CHALK CREEK NO.1
WHITNEY G S
STILLWATER CAMP
HAYOEN FORK
TRIAL LAKE
U.S. 30N
U.S. 30S
U.S. 191
42°
41°00'
113°00'
112°00'
111°00'
LEGEND
Watershed Boundary
Soil Conservation District Bdry
County Boundary
Forecost Point
Snow Course
Snow Course and Snow Pressure Pillow
Snow Pressure Pillow
Aerial Snow Depth Gage
Soil Moisture Station
Temperature Gage
Precipitation Gage
Radio Telemetry
WATERSHED LOCATIONS
I
II
III
IV
V
N

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
		GREAT BASIN				
		BEAR RIVER				
10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985
		MINK CREEK				
11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800
		CUB RIVER				
11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660
		MALAD RIVER				
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE ANO PRECIPITATION GAGE.
10J7M	SNOW COURSE ANO SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE ANO PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION ANO AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION ANO PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RAOIOACTIVE GAGE

USDA-SCS-PORTLAND, OREG. 1979 M7-OL-22023-5

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
MALAD RIVER						
Daniels Creek	6400	1/25	6	0.7	--	--
Dry Creek Flat	6480	1/25	5	1.3	--	5.3
Lower Elkhorn	7000	1/25	9	2.2	--	9.8*
Oxford Mountain	6800	1/25	9	1.7	--	6.9*
Upper Elkhorn	7100	1/25	12	2.6	--	12.0*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
- Forest Service
- Agricultural Research Service
- Statistical Reporting Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of the Interior
- Bonneville Power Administration
- Bureau of Reclamation
- Fish and Wildlife Service
- Water Resources Division, Geological Survey
- National Park Service
- Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

51.573
N36wi

WATER SUPPLY OUTLOOK FOR IDAHO

The Library of the
MAR 23 1977
University of Illinois
at Urbana-Champaign

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAR. 1, 1977

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND OR 1976

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
E. DON HUBBLE, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WARNING

You may have less Irrigation water this year than ever before.

SNOW COURSE MEASUREMENTS MADE ON MARCH 1, 1977 CONTINUE TO INDICATE THAT MANY AREAS WILL HAVE SEVERE TO CRITICAL WATER SHORTAGES. STUDY THE ATTACHED WATER SUPPLY FORECAST CAREFULLY FOR STREAM FLOW AND/OR RESERVOIR STORAGE FIGURES THAT CONCERN YOUR AREA. KEEP IN TOUCH WITH YOUR IRRIGATION DISTRICT OR OTHER OFFICIALS FOR ESTIMATES OF THE SUPPLY AVAILABLE FOR YOU. YOU MAY FIND YOU'LL NEED TO CHANGE CROPS, PLANTED ACREAGE, TIMING OF WATER APPLICATION OR EFFICIENCY OF YOUR WATER DISTRIBUTION SYSTEM. THESE ARE SOME OF THE EARLY DECISIONS AND PLANS YOU MAY HAVE TO MAKE:

1. Change to crops which require less water.

2. Reduce the crop acreage. Naturally, this will affect the fertilizer you order and the amount of seed you buy. Be sure unplanted land has cover crops to prevent wind erosion.

3. Check out your irrigation systems carefully. Make certain that ditches have no water-wasting weeds or debris to slow delivery; that sprinkler heads don't have leaks, pipes have tight connections and pumps work properly. If new parts or equipment are needed, purchase them soon.

4. Plant only the best land - it makes most efficient use of water. If your soil has been mapped, local Soil Conservation Service personnel can guide you. If not mapped, they can still give you general information.

5. Maintain close contact with the Soil Conservation Service or your local Conservation District for the latest water supply forecasts, and for soil information. SCS has just published water conservation TIPS pamphlets for irrigators, farmers and ranchers. Get copies.

6. Maintain close contact with the Agricultural Stabilization and Conservation Service county office. Funds for cost sharing on special water stretching practices may be made available because of the drought situation. ASCS also administers the Federal Disaster Assistance program.

7. Do the same with your closest Farmers Home Administration office. Special loans may become available.

8. Do the same with the local Cooperative Extension Service office for current information on crops, feed supply and marketing.

SCS, ASCS AND FMHA ARE LISTED IN THE PHONE BOOK UNDER "U.S. GOVERNMENT, AGRICULTURE, DEPARTMENT OF." THE EXTENSION SERVICE IS USUALLY LISTED WITH LOCAL COUNTY OFFICES.

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR MARCH 1, 1977

A critically low water supply is the outlook for Idaho during 1977. Record low seasonal flows are projected for rivers and streams throughout the state. Streamflow forecasts vary from a low of 10% of average for the Bear River drainage to 60% of normal for the Henry's Fork of the Snake River at Ashton. Many small streams, for which numerical forecasts are not made, can be expected to produce well below average flow and some may even dry up before the end of the season.

Snowpack accumulation during February was negligible with little or no change from the extremely deficient situation existing on February 1. Normally 85 to 90% of the snowpack has accumulated on the major watersheds by March 1 and maximum snowpack is present on many smaller and lower elevation streams. Water equivalent of the snowpack as of March 1 varies from 5% of average on the Palouse River watershed to 45% of normal on the Bruneau River drainage.

Valley precipitation during February continued below normal throughout Idaho and accumulated water-year precipitation reached about 32% of average by March 7. Temperatures averaged generally near normal during the month.

Soils are extremely dry and can be expected to absorb a significant amount of water when the snow melts. The shallow snowpack in many areas will be absorbed by the soil with little or no surface runoff resulting from snowmelt.

Streamflow throughout the state has decreased significantly during the winter months and all streams were below, to well below normal flows as of March 1.

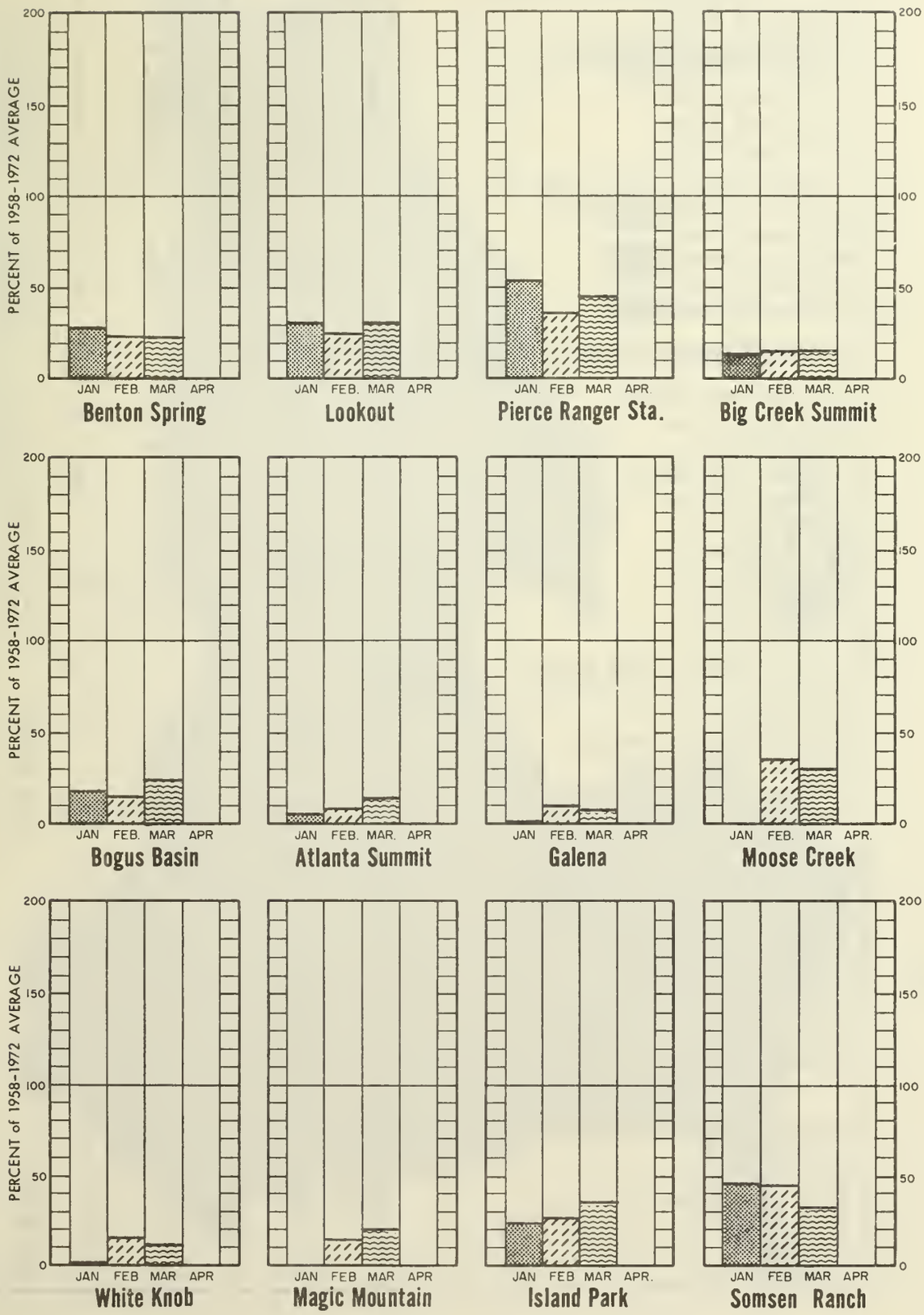
In general, stored water in irrigation reservoirs was near average as of March 1. However, due to possible early drafting for irrigation and low runoff forecasts, some reservoirs are not expected to fill in 1977.

It is apparent water supplies for irrigation will be reduced and possibly curtailed entirely in late season even where reservoir facilities are adequate. Water users irrigating by direct stream diversion where reservoirs are not present can expect critical shortage with little or no late season water.

Efficient management and conservation of water should be exercised by farmers, ranchers and other water users in 1977.

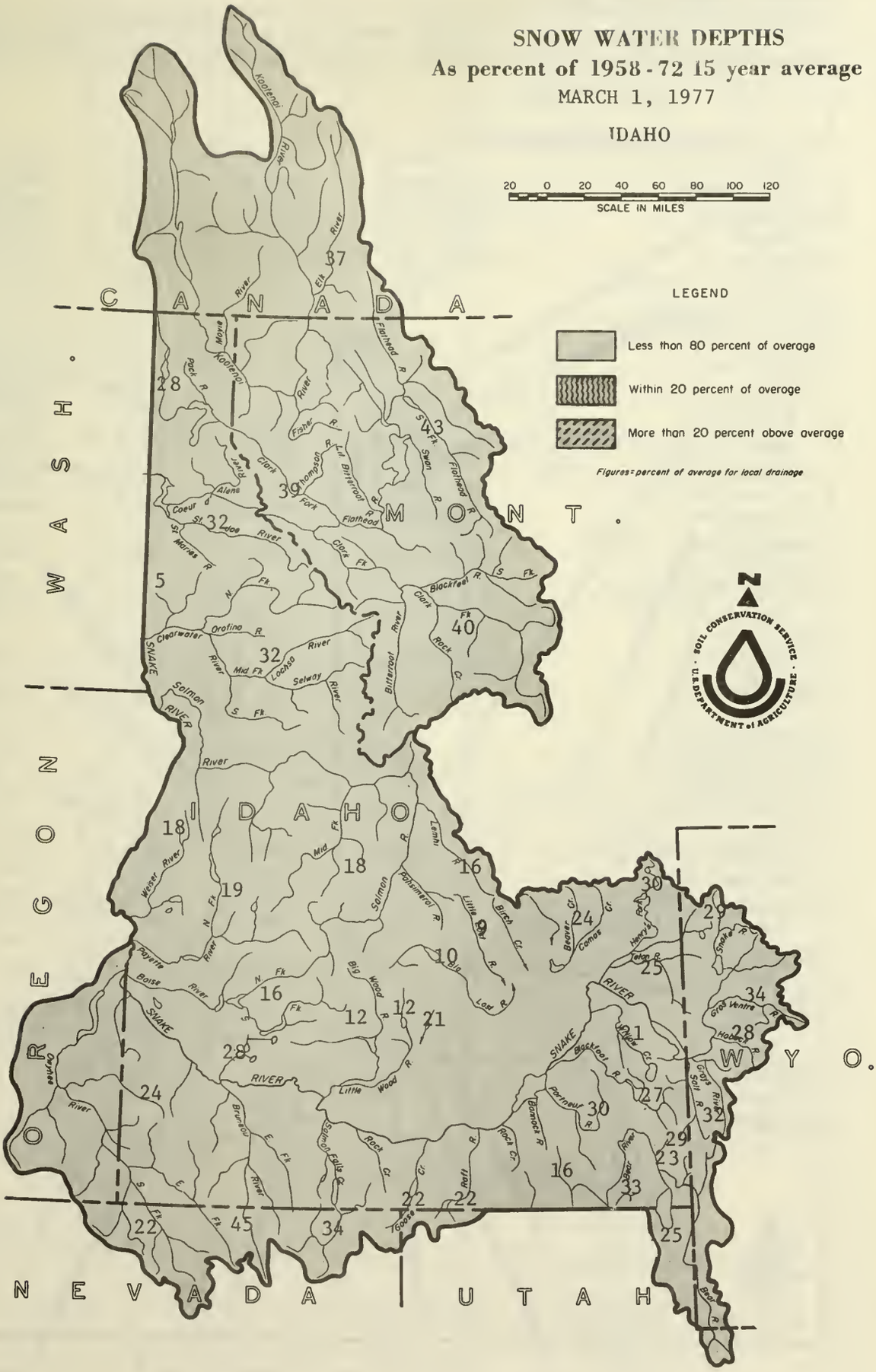
SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

MARCH 1, 1977



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	40	36	37
Pend Oreille River	72	36	39
Clark Fork River	34	33	40
Flathead River	21	46	43
Priest River	4	33	28
Spokane River	12-13	32	32
LOWER SNAKE RIVER BASIN			
Palouse River	5	4	5
Clearwater River	17-20	30	32
Salmon River	22	16	18
Lemhi River	6	13	16
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	11	9
Big Lost River	7-9	16	10
Fish Creek	2	22	21
Little Wood River	4	17	12
Big Wood River	10	14	12
Canyon Creek	1	--	28
Boise River	14-15	15	16
Payette River	12	17	19
Weiser River	2-6	22	18
Mann Creek	4	25	--
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	7-8	23	22
Goose-Trapper Creeks	3	21	22
Salmon Falls Creek	10	33	34
Bruneau River	5	41	45
Owyhee River	5	23	22
Jordan Creek	2	25	24
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	31	25	31
Camas-Beaver Creeks	2	28	24
Henrys Fork River	10-11	26	30
Teton River	2-11	24	25
Willow Creek	5-9	18	21
Blackfoot River	3-4	25	27
Portneuf River	4	25	30
GREAT BASIN			
Bear River	23	--	25
Montpelier Creek	4	22	23
Mink Creek	7	24	24
Cub River	2-4	27	33
Malad River	4-6	14	16


SNOW WATER DEPTHS
As percent of 1958-72 15 year average
MARCH 1, 1977
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Less than 80 percent of average
Within 20 percent of average
More than 20 percent above average
Figures=percent of average for local drainage
N
SOIL CONSERVATION SERVICE
U.S. DEPARTMENT of AGRICULTURE
CANADA
MONT.
WASH.
OREGON
IDAHO
WYO.
NEVADA
UTAH
Kootenai River
Elk River
Flathead R
Moyie River
Pack R
Fisher R
Clark Fork
Thompson R
Lit. Bitterroot R
Swan R
Flathead R
Alene River
Coeur d'Alene
St. Joe River
St. Maries R
Clark Fk
Blackfoot R
Clark Fk
Rock Cr
Bitterroot River
Orofino R
Clearwater River
Mid Fk
Lochsa River
Selway River
Salmon River
SNAKE RIVER
Weiser River
Payette River
Boise River
Big Wood R
Little Wood R
Big Lost R
Little Lost R
Birch Cr
Lemhi R
Pahsimeroi R
Beaver Cr
Camas Cr
Henry's Fork
Teton R
Snake R
Gros Ventre R
Hoback R
Willow Cr
Blackfoot R
Portneuf R
Bannock R
Rock Cr
Raft R
Goose Cr
Salmon Falls Cr
Brunsou River
Owyhee River
Grays River
Salt R
Bear River
Bear R
37
28
43
39
32
5
40
32
18
19
18
16
10
16
12
12
21
28
24
30
29
25
34
28
21
27
32
30
29
23
16
33
22
22
22
45
34
25

RESERVOIR STORAGE (1,000 Ac. Ft.)

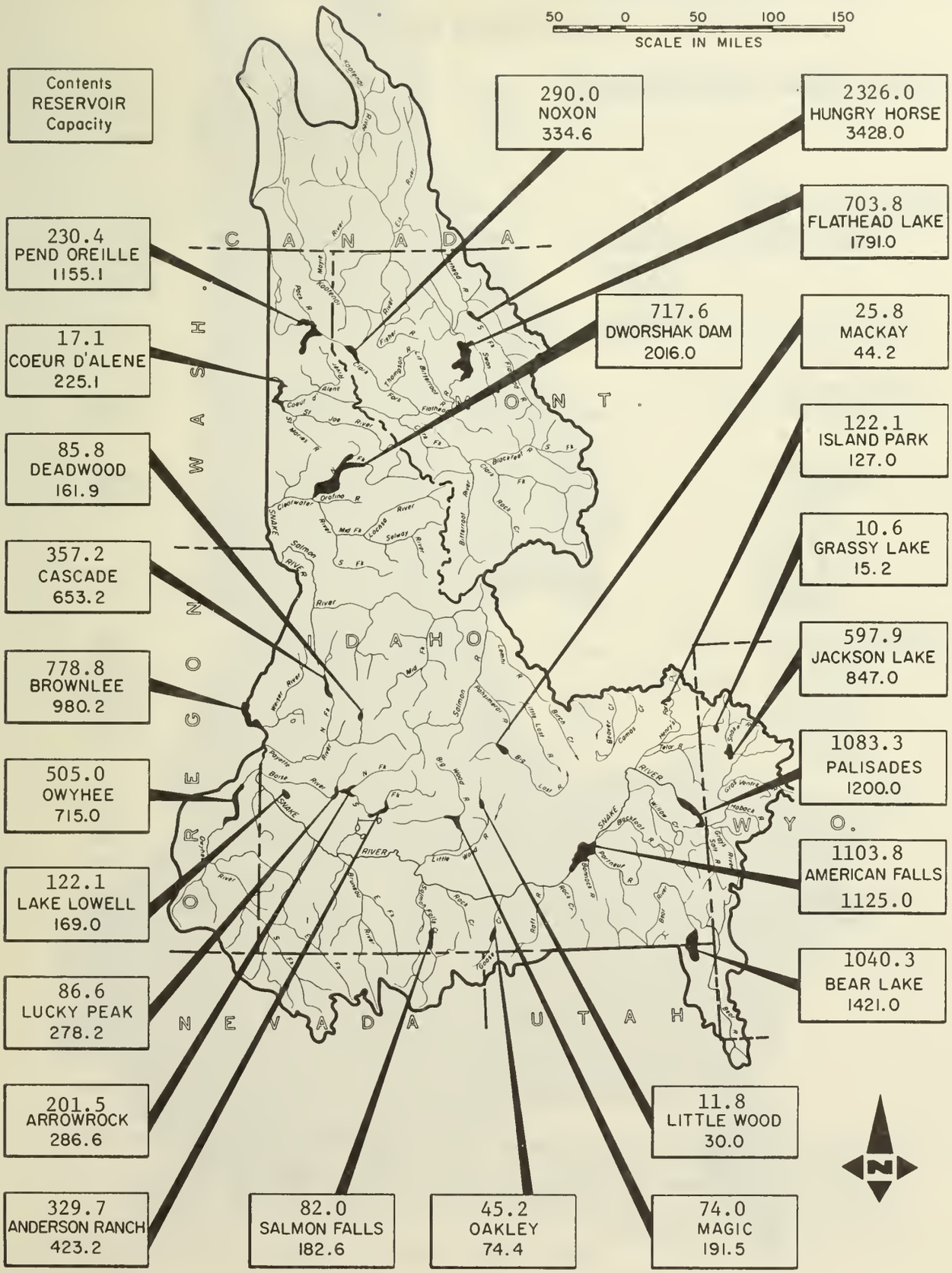
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2326.0	2570.0	2329.0
Flathead	1791.0	703.8	925.5	1009.0
Pend Oreille	1155.1	230.4	498.6	457.0
Noxon	334.6	290.0	261.8	300.6
Spokane				
Coeur d'Alene	225.1	17.1	130.0	162.3
SNAKE BASIN				
Snake				
Jackson Lake	847.0	597.9	633.2	533.3
Palisades	1200.0	1083.3	904.5	809.0
American Falls	1125.0	1103.8	963.9	789.1
Island Park	127.0	122.1	98.5	113.5
Grassy Lake	15.2	10.6	11.0	10.3
Brownlee	980.2	778.8	487.4	451.1*
Goose-Trapper Creeks				
Oakley	74.4	45.2	47.5	19.3
Salmon Falls Creek				
Salmon Falls	182.6	82.0	111.8	34.5
Big Lost				
Mackay	44.2	25.8	28.2	31.9
Big Wood				
Magic	191.5	74.0	135.0	103.5
Little Wood				
Little Wood	30.0	11.8	20.5	15.5
Fish Creek				
Carey Valley	14.4	5.5	7.0	--
Boise				
Anderson Ranch	423.2	329.7	258.3	237.6
Arrowrock	286.6	201.5	273.5	247.9
Lucky Peak	278.2	86.6	67.3	89.2
Lake Lowell (Deer Flat)	169.0	122.1	142.5	132.0
Owyhee				
Owyhee	715.0	505.0	671.4	451.2
Payette				
Cascade	653.2	357.2	393.0	325.9
Deadwood	161.9	85.8	97.0	78.8
Weiser				
Mann Creek	11.1	3.2	6.2	--
Clearwater				
Dworshak	2016.0	717.6	512.5	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1040.3	1049.4	958.3

*Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1977



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	4900	54	Apr-Sep	--	9073
		4200	53	Apr-Jul	--	7957
		3450	54	Apr-Jun	--	6431
PEND OREILLE RIVER						
Clark Fork River						
Whitehorese Rapids	(at)	6800	48	Apr-Sep	--	14083
		6160	48	Apr-Jul	--	12852
		5300	48	Apr-Jun	--	11092
Priest River 1/	(nr)	400	46	Apr-Jul	--	879
SPOKANE RIVER						
Post Falls 2/	(at)	915	31	Apr-Sep	--	3008
St. Joe River						
Calder	(at)	470	35	Apr-Sep	--	1345
		460	36	Apr-Jul	--	1277
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(nr)	420	49	Apr-Sep	--	858
Palisades Inflow 3/		1200	46	Apr-Sep	--	3714
Heise 4/	(nr)	1750	44	Apr-Sep	--	3946
Blackfoot 5/	(nr)	2000	48	Apr-Jul	--	4173
Weiser	(at)	3000	46	Apr-Sep	--	6524
Henrys Fork						
Ashton 6/	(nr)	400	60	Apr-Sep	--	671
Rexburg 7/	(nr)	750	55	Apr-Sep	--	1364
Teton River						
St. Anthony	(nr)	250	57	Apr-Sep	--	442

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

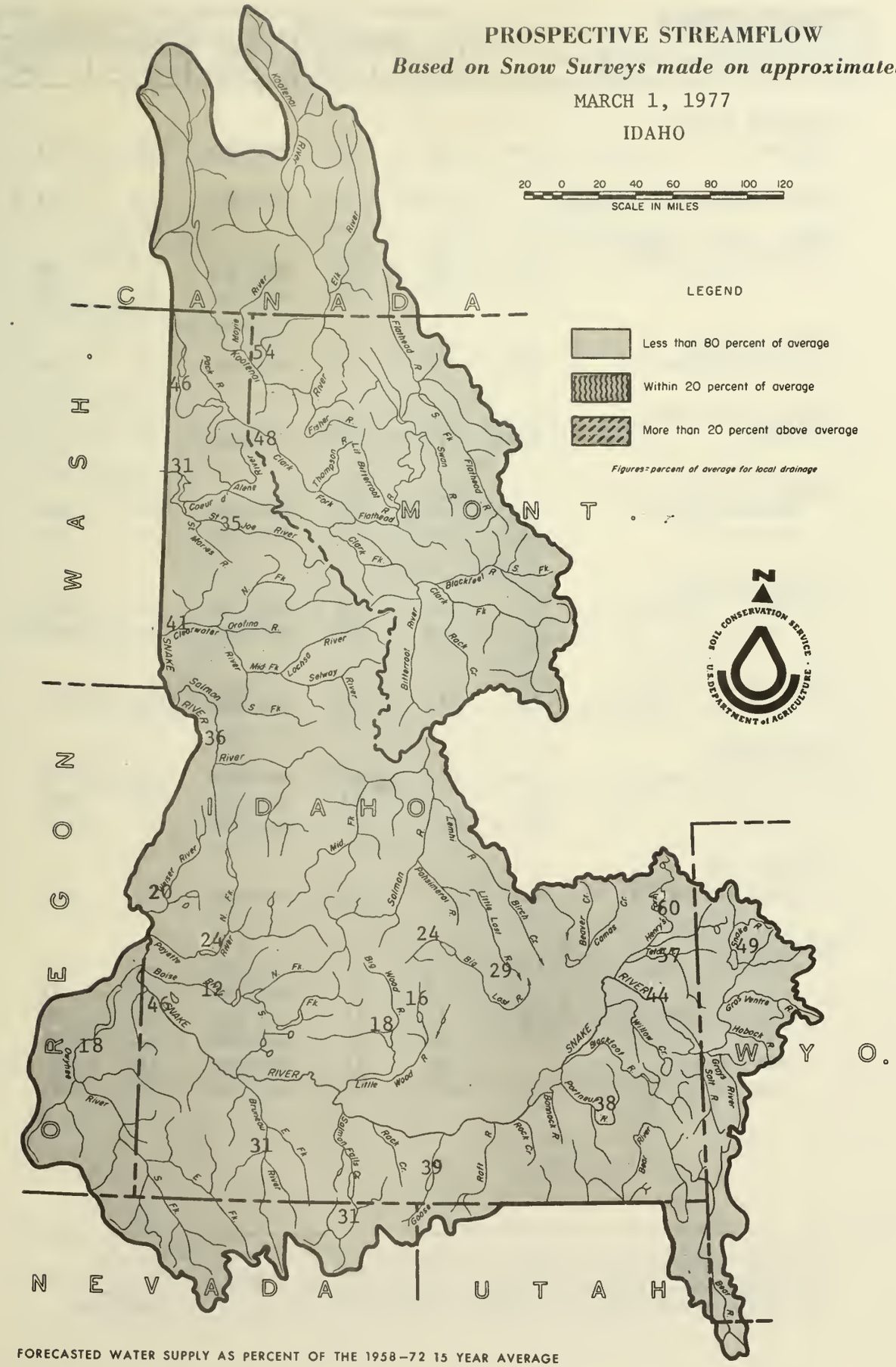
+ 1958-1972 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MARCH 1, 1977

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958–72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST[c] Thousand Acre Feet	THIS YEAR FORECAST[c] Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Portneuf River						
Topaz	(at)	35	38	Mar-Sep	--	93
Oakley Reservoir Inflow		11.5	39	Mar-Sep	--	29.5
Salmon Falls Creek						
San Jacinto	(nr)	26	31	Mar-Sep	--	84
		24	30	Mar-Jul	--	80
Bruneau River						
Hot Springs	(nr)	70	31	Mar-Sep	--	226
Little Lost River						
Howe	(nr)	12	29	Apr-Sep	--	41
Big Lost River						
Howell Ranch	(at)	50	24	Apr-Sep	--	208
Mackay 1/	(nr)	40	22	Apr-Sep	--	183
Big Wood River						
Magic Reservoir		55	18	Apr-Sep	--	301
Inflow 2/		60	19	Mar-Jul	--	310
Little Wood River						
High Five Creek	(ab)	15	16	Apr-Sep	--	94
Boise River						
Twin Springs	(nr)	90	12	Apr-Sep	--	720
		85	13	Apr-Jul	--	665
Boise 3/	(nr)	195	12	Apr-Sep	--	1612
South Fork						
Anderson Dam 4/	(at)	75	12	Apr-Sep	--	603
Owyhee River						
Gold Cr., Nev. 5/	(nr)	3	17	Apr-Jul	--	18
		5	22	Mar-Jul	--	23
Owyhee, Nev. 5/	(nr)	12	18	Apr-Jul	--	68
		16	20	Mar-Jul	--	81
Lake Owyhee		60	18	Apr-Sep	510	332
net inflow 6/		102	20	Mar-Jul	631	431

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

+ 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	440	24	Apr-Sep	--	1850
North Fork						
Cascade 3/	(at)	135	24	Apr-Sep	--	562
Banks 3/	(nr)	175	24	Apr-Sep	--	730
Weiser River						
Weiser ab. Crane Creek 4/		102	20	Mar-Sep	--	511
Salmon River						
Whitebird	(at)	2500	36	Apr-Sep	--	6959
Clearwater River						
Spalding	(at)	3500	41	Apr-Sep	--	8605
GREAT BASIN						
BEAR RIVER						
Harer	(at)	30	10	Apr-Sep	--	297
Montpelier Creek						
Montpelier	(nr)	2	16	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	10	20	Apr-Sep	--	50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4 Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter February 1977		Fall - Winter Nov. 76 - Feb. 77	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.19	-0.76	4.71	-6.94
Flathead	0.71	-1.03	3.65	-5.55
Clark Fork	0.33	-0.94	2.50	-4.28
Pend Oreille-Spokane	0.95	-1.89	5.62	-9.40
Upper Snake	0.46	-1.39	2.66	-5.93
Snake River Plain	0.29	-0.49	0.79	-3.51
Salmon-Payette-Boise	0.58	-1.17	1.67	-8.39
Clearwater	1.21	-1.66	5.61	-9.31
Owyhee-Malheur	0.39	-0.46	1.30	-3.52

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-1972) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 1/
UPPER COLUMBIA RIVER BASIN						
PEND OREILLE - PRIEST RIVER						
Benton Meadow	2370	2/24	6	1.6	4.6	6.1
Benton Spring	4900	2/24	16	4.1	11.2	17.4
#Mosquito Ridge (A)	5110	3/6	48	13.3	33.8	34.7*
Schweitzer Bowl	4500	2/25	29	8.2	20.8	27.8*
Schweitzer Ridge	6100	2/25	36	11.5	40.0	39.9*
HAYDEN LAKE						
Chilco Ridge	3650	2/23	6	1.4	9.2	--
Conie Ridge	3900	2/23	8	1.6	10.4	--
Corner Creek	3150	2/23	13	3.2	9.4	--
Sage Creek Saddle	4100	2/23	24	5.2	18.0	--
SPOKANE RIVER						
Above Burke	4100	2/24	36	8.8	22.6	--
Copper Ridge	4800	2/22	29	7.8	25.3	25.7
#Forty-nine Meadows	4880	3/5	33	6.6	24.8	28.4*
Fourth of July Summit	3200	2/23	10	2.7	11.4	7.3*
Granite Peak	6000	3/5	46	10.2	36.0	37.7*
Kellogg Peak (A)	5560	3/6	33	9.2	28.8	--
Lookout	5120	2/24	36	10.0	31.2	32.4
#Lost Lake	6000	3/5	60	15.1	49.0	51.3*
Lower Sands Creek	3400	2/22	23	6.2	17.8	17.5
Medicine Ridge	5920	3/5	54	11.8	39.8	38.5*
Mosquito Ridge (A)	5110	3/6	48	13.3	33.8	34.7*
Roland Summit (A)	5200	3/6	36	10.0	31.6	31.3*
Sherwin	3200	2/24	13	3.5	15.8	13.8*
Sherwin (SP)	3200	2/24	--	3.8	--	--
Sunset (A)	5600	3/6	62	16.4	32.7	33.7*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	2/25	0	0.0	11.9	7.8*
East Twin	4050	2/25	2	0.4	14.2	11.1
Howard Creek	3500	2/25	0	0.0	8.0	4.5*
Moscow Mountain	4400	2/25	9	2.2	18.7	15.3
West Twin	4250	2/25	0	0.0	12.2	9.4

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
CLEARWATER RIVER							
Breezy Saddle		5000	3/5	35	7.7	--	--
Cayuse Airstrip		3700	3/5	18	4.7	13.0	11.7
Cottonwood Butte		5140	2/25	10	2.0	14.7	--
Crater Meadows		6100	3/5	65	16.3	39.2	40.9*
Crooked Fork		3600	2/28	24	4.9	15.5	12.9*
Elk Butte		5550	3/5	49	11.8	34.7	35.0*
Fish Lake Airstrip		5000	3/5	57	12.4	38.8	37.3
Forty-nine Meadows		4880	3/5	33	6.6	24.8	28.4*
Goat Lake		6600	3/5	64	14.5	42.0	43.8*
#Granite Peak		6000	3/5	46	10.2	36.0	37.7*
Hemlock Butte		5500	3/5	62	15.9	46.2	42.8*
#Hoodoo Basin	Mont.	6000	3/1	58	14.8	48.6	46.1
#Hoodoo Basin (SP)	Mont.	6000	3/1	--	14.0	47.2	--
#Hoodoo Creek	Mont.	5900	3/1	51	12.2	45.5	43.2
Lolo Pass		5240	2/28	40	8.3	32.9	28.5
Lost Lake		6000	3/5	60	15.1	49.0	51.3*
Lower Snowhaven		5300	2/25	14	3.1	22.1	--
#Medicine Ridge		5920	3/5	54	11.8	39.8	38.5*
#Nez Perce Pass	Mont.	6575	3/7	26	7.0	20.3	14.3
Pierce Ranger Station		3170	2/28	16	4.6	13.4	10.3
Savage Pass		6170	2/28	37	8.0	30.9	24.3
Shanghai Summit		4600	3/5	34	8.3	24.8	24.5*
Upper Snowhaven		5600	2/25	11	2.8	20.3	--
SALMON RIVER							
Big Creek Summit		6600	2/25	25	4.6	34.0	31.4
Borah (A)		8250	2/28	0	0.0	6.1	--
#Boulder Creek		5500	3/1	21	3.7	21.6	21.8*
Brundage Mountain		7560	2/25	32	5.9	43.2	42.2*
#Deadwood Summit		7000	3/2	28	5.5	41.6	40.4*
Doublespring Pass (A)		8400	2/28	3	0.3	8.1	--
#Galena Summit		8795	2/28	15	2.8	18.9	20.6
#Gibbons Pass	Mont.	7100	2/23	24	5.2	24.1	20.5
Leatherman Pass (A)		9800	2/28	16	2.6	20.1	--
#Lemhi Pass	Mont.	7480	2/25	12	2.5	11.2	7.9
#Lemhi Ridge	Mont.	8100	2/25	15	2.9	13.6	8.9
Mill Creek Summit		8870	2/28	16	2.6	23.2	20.3*
Moose Creek		6200	3/1	24	4.6	18.6	15.2
Morgan Creek		7580	2/28	12	2.0	14.9	12.6*
Redfish Lake Flat		6570	3/1	11	1.6	12.9	8.7*
#Rock Flat Summit		5200	2/25	18	3.4	17.2	16.2
#Secesh Summit		6520	2/26	27	5.6	32.3	--
#Squaw Meadow		5800	2/26	28	5.7	32.3	31.1*
Twin Peaks (A)		10300	2/28	23	3.7	26.2	--
Vienna Mine		8960	3/2	31	5.3	27.8	32.2
Williams Creek Summit		7800	2/28	14	2.5	14.8	11.0

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
Lemhi River						
Above Gilmore	8200	2/28	7	1.0	9.5	8.6*
Aspen-Hall Pass (A)	8110	2/28	12	2.4	12.8	7.7*
Copes Camp	7500	2/28	9	1.3	8.6	6.6*
Hall Creek	7560	2/28	3	0.3	6.0	4.8*
Meadow Lake	9100	2/28	13	2.6	17.2	17.1*
Schwartz Lake (A)	8500	2/28	8	1.6	15.6	11.0*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 6
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	2/24	0	0.0	4.0	4.5
Lost Garfield	6600	2/24	0	0.0	4.0	3.8
Moonshine	7450	2/24	8	1.1	8.6	9.8
Sawmill Canyon	6900	2/24	6	1.1	5.8	7.4
Wet Creek Summit	7600	2/24	7	0.9	7.0	10.9
BIG LOST RIVER						
Bear Canyon	7920	3/2	10	1.6	8.8	16.3
Copper Basin	7650	3/2	0	0.0	5.2	8.6
Fishpole Lake	9350	3/2	15	3.1	11.0	--
Iron Bog	7650	2/23	9	1.2	9.2	13.8*
Leadbelt	6800	2/23	8	1.4	5.2	9.0*
#Leatherman Pass (A)	9800	2/28	16	2.6	20.1	--
Lost-Wood Divide	7900	3/2	15	2.6	16.3	20.5
Stickney Mill	7500	3/2	8	0.9	6.3	8.4
White Knob	7700	2/25	6	0.9	5.9	8.4*
FISH CREEK						
Iron Mine Creek	6370	2/25	12	2.3	9.2	9.7
Telfer Ranch	6000	2/25	6	1.3	7.0	7.7
LITTLE WOOD RIVER						
#Bear Canyon	7920	3/2	10	1.6	8.8	16.3
Garfield Ranger Station	6554	3/2	6	1.0	7.4	10.0
Muldoon	6300	3/1	6	0.9	5.9	7.8
Swede Peak	7650	3/1	14	2.3	11.3	15.4
BIG WOOD RIVER						
Camas Creeks Divide	5720	2/26	6	1.5	--	--
#Couch Summit	6950	2/25	12	2.1	16.0	16.9*
Dollarhide Summit	8620	3/2	15	2.6	17.8	20.7
Galena	7300	2/28	8	1.4	14.7	17.2
Galena Summit	8795	2/28	15	2.8	18.9	20.6
Graham Ranch	6200	2/28	7	1.2	9.6	12.4
#Lost-Wood Divide	7900	3/2	15	2.6	16.3	20.5
Mascot Mine	7900	3/2	10	1.5	9.5	12.1
Mount Baldy	9000	2/28	12	2.3	15.2	18.0
Soldier Ranger Station	6100	2/25	3	0.8	10.7	11.2
#Vienna Mine	8960	3/2	31	5.3	27.8	32.2

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
CANYON CREEK						
Bennett Mountain	6650	2/26	16	4.4	--	15.5*
#Camas Creeks Divide	5720	2/26	6	1.5	--	--
Little Camas Flat	4950	2/26	2	0.4	8.9	--
BOISE RIVER						
Atlanta Summit	7500	3/4	22	4.3	--	30.2
Bad Bear	5500	2/28	9	1.9	17.0	13.1*
#Bennett Mountain	6650	2/26	16	4.4	--	15.5*
#Bogus Basin	6120	2/28	23	4.8	21.7	20.7
Bogus Basin Road	5360	2/28	6	1.3	8.2	5.4
#Camas Creeks Divide	5720	2/26	6	1.5	--	--
Couch Summit	6950	2/25	12	2.1	16.0	16.9*
Deadman Gulch	5600	2/27	21	4.0	17.0	14.0*
#Dollarhide Summit	8620	3/2	15	2.6	17.8	20.7
Graham Guard Station	5690	3/2	9	2.6	16.8	--
Jackson Peak	7000	3/2	24	5.0	28.2	27.2*
#Little Camas Flat	4950	2/26	2	0.4	8.9	--
Moores Creek Summit	6100	2/28	26	4.0	35.8	28.5
Prairie	4900	2/28	4	0.8	9.5	5.3
Road Creek	5550	3/4	8	1.6	--	9.2
#Soldier Ranger Station	6100	2/25	3	0.8	10.7	11.2
Trinity Mountain	7780	3/4	21	4.5	33.5	37.8
#Vienna Mine	8960	3/2	31	5.3	27.8	32.2
PAYETTE RIVER						
#Big Creek Summit	6600	2/25	25	4.6	34.0	31.4
Bogus Basin	6120	2/28	23	4.8	21.7	20.7
#Brundage Mountain	7560	2/25	32	5.9	43.2	42.2*
Cozy Cove	5400	3/2	18	3.5	--	15.1
Crawford Ranger Station	4800	2/27	9	1.6	7.4	7.7
#Deadman Gulch	5600	2/27	21	4.0	17.0	14.0*
Deadwood Airstrip	5440	3/2	20	3.8	14.1	14.5
Deadwood Summit	7000	3/2	28	5.5	41.6	40.4*
High Valley Summit	5170	3/3	23	3.1	14.8	10.3*
#Jackson Peak	7000	3/2	24	5.0	28.2	27.2*
Lake Fork	6000	2/26	20	3.6	17.2	14.1*
Rock Flat Summit	5200	2/25	18	3.4	17.2	16.2
Secesh Summit	6520	2/26	27	5.6	32.3	--
Squaw Meadow	5800	2/26	28	5.7	32.3	31.1*
Tripod Summit	5200	3/3	25	3.6	21.4	15.8*
WEISER RIVER						
Boulder Creek	5500	3/1	21	3.7	21.6	21.8*
Placer Creek	6000	2/25	14	3.0	14.8	15.9*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
MANN CREEK						
Mann Creek	6080	2/27	20	4.2	17.5	--
Robinson Creek Ridge	6220	2/27	14	3.3	12.6	--
Sturgill Ridge	6800	2/27	18	5.2	19.8	--
Thorson Cabin	5320	2/27	13	2.8	12.9	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME		Elevation				Last Year	Average 6
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE							
RAFT RIVER							
Boy Scout Camp		7760	2/25	19	2.7	11.0	13.2*
Clear Creek Meadows	Utah	9050	2/25	27	3.9	14.4	18.2*
George Peak	Utah	9000	2/25	20	3.5	18.8	--
Howell Canyon		8000	2/28	19	3.6	23.1	22.2
One Mile Summit	Utah	7330	2/25	6	0.9	4.0	6.8*
Sheep Hollow		6200	2/25	16	2.5	5.9	5.6*
Sublett		6000	2/25	21	2.6	10.3	9.9
Summit Springs		6400	2/25	19	2.6	11.0	9.7*
GOOSE-TRAPPER CREEKS							
Badger Gulch		6660	2/25	13	2.1	10.9	10.1
Bostetter Ranger Station		7500	2/25	22	2.9	17.2	17.5
Vi Pont		7670	2/25	20	4.0	15.5	12.7*
SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	3/5	38	8.6	18.8	17.3
Cedar Creek		7000	3/5	12	2.5	8.5	8.8
Deadline		6900	2/25	16	3.0	19.4	19.9
#Fox Creek	Nev.	6800	3/5	21	4.8	10.4	9.3
Goat Creek	Nev.	8800	3/5	28	6.0	14.7	16.0
#Hummingbird Springs	Nev.	8945	3/5	33	7.0	19.4	19.5
Magic Mountain		6700	2/25	17	3.3	16.0	16.2
#Pole Creek R. S.	Nev.	8330	3/5	35	7.9	18.8	16.8
Shoshone Basin		5740	2/25	5	0.6	7.8	4.2
Wilson Creek		7500	3/5	16	3.7	8.8	11.4*
BRUNEAU RIVER							
Bear Creek	Nev.	7800	3/5	38	8.6	18.8	17.3
Fox Creek	Nev.	6800	3/5	21	4.8	10.4	9.3
Hummingbird Springs	Nev.	8945	3/5	33	7.0	19.4	19.5
Pole Creek R. S.	Nev.	8330	3/5	35	7.9	18.8	16.8
#Seventy-six Creek	Nev.	7100	3/5	18	4.3	12.2	10.0*
OWYHEE RIVER							
Antelope Ridge		5900	2/26	2	0.2	5.6	6.1*
Battle Creek (A)		5700	3/4	1	0.1	3.4	2.9
#Bear Creek	Nev.	7800	3/5	38	8.6	18.8	17.3
Bull Basin (A)		5600	3/4	2	0.2	1.7	1.1*
#Fox Creek	Nev.	6800	3/5	21	4.8	10.4	9.3
Hyde Pasture (A)		5800	3/4	4	0.4	3.4	4.9
Mud Flat		5500	2/26	2	0.4	--	5.4
Red Canyon (A)		6650	3/4	12	2.4	5.6	5.9*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
#Seventy-Six Creek	Nev.	7100	3/5	18	4.3	12.2	10.0*
Silver City		6400	2/28	16	3.5	13.2	13.8
South Mountain		6340	3/1	12	2.6	10.8	11.3
Succor Creek (A)		6100	3/4	12	2.4	5.9	5.4*
Trangle (A)		5150	3/4	1	0.1	0.3	0.6
Vaught Ranch (A)		5950	3/4	1	0.1	3.6	3.3*
War Eagle (A)		7700	3/4	36	5.4	19.3	22.1*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

ORAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Camp Creek		6800	2/28	10	1.5	6.9	9.0
Kilgore		6200	2/28	15	3.0	9.1	10.1
HENRYS FORK RIVER							
Big Springs		6400	2/28	31	6.0	21.5	18.6
Black Canyon		7850	2/25	33	8.0	36.0	29.4*
Black Moose		8125	2/25	33	9.2	39.4	36.2*
Grassy Lake	Wyo.	7265	2/28	50	12.4	40.4	30.1
Island Park		6315	2/28	27	5.2	18.4	14.7
Latham Springs		7630	2/25	34	8.2	35.0	27.9*
Lucky Dog		6900	2/25	23	4.6	23.6	21.6*
Sawtell Mountain		8720	2/28	37	7.7	29.0	30.4*
Targhee Pass		7000	2/28	24	4.5	16.0	13.5*
Valley View		6500	2/28	21	4.9	17.6	15.4
White Elephant		7700	2/28	30	6.0	22.9	--
TETON RIVER							
Darby Canyon	Wyo.	8250	2/28	35	5.8	26.2	--
Freds Mountain	Wyo.	8150	2/28	39	6.8	28.7	--
Garns Mountain		8300	2/28	39	8.8	44.8	--
Indian Meadows	Wyo.	8240	2/28	45	9.9	41.7	--
Jackpine Creek	Wyo.	7350	2/28	29	6.0	27.0	--
McRenolds Reservoir		6800	2/28	29	6.0	23.3	--
Miles Creek	Wyo.	7300	2/28	23	4.8	15.3	--
Phillips Bench	Wyo.	8200	2/25	39	9.5	28.6	--
Pine Creek Pass		6750	2/28	24	4.4	21.7	15.4*
State Line		6650	2/28	19	2.6	18.1	12.8
Teton Pass W.S.	Wyo.	8400	2/25	31	6.9	27.8	--
WILLOW CREEK							
Aspen Grove		6600	2/23	16	3.0	13.5	10.3*
Birch Creek		6800	2/23	10	2.1	11.7	14.3*
Blue Ridge		6800	2/23	12	2.8	17.2	--
Bone		6200	2/23	6	1.2	8.1	7.5*
Brockman Station		6430	2/23	9	1.9	11.0	--
Hell Creek		7100	2/23	15	3.0	15.5	--
Mud Creek		7150	2/23	10	2.2	12.7	--
Sheep Mountain		6510	2/23	17	2.8	14.9	12.6*
Tex Creek		6700	2/23	12	2.0	12.1	8.5*
SAND CREEK							
Henry Creek		5650	2/23	0	0.0	5.1	2.4*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
BLACKFOOT RIVER						
Austin Bros. Ranch	6400	2/25	4	0.5	9.3	7.9
Slug Creek Divide	7225	2/28	25	5.0	16.0	14.7*
Somsen Ranch	7000	2/25	22	3.8	15.0	12.0
Ten Mile Pass	6250	2/25	14	2.8	8.7	--
PORTNEUF RIVER						
Dempsey Creek	6280	2/28	20	3.8	13.8	10.6
Lower Pebble	5800	2/28	16	4.2	16.2	12.1*
Mink Creek	6300	3/3	28	4.9	17.4	15.0
Pebble Creek	6550	2/28	13	2.8	15.4	14.5

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average 6
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	2/28	23	4.3	21.3	21.8*
Emigration Canyon	6500	2/28	14	2.7	11.4	9.7*
Montpelier Creek						
Giveout	6840	2/28	19	3.1	12.2	11.0*
Little Beaver	6970	2/28	20	3.2	14.7	14.0*
Lower Home Canyon	7500	3/1	20	3.6	--	--
Montpelier Creek	6570	2/28	9	1.2	8.1	7.5*
Upper Home Canyon	8500	3/1	30	6.4	--	--
Whiskey Flat	6985	2/28	10	2.0	8.0	8.9*
Mink Creek						
Christensen Ranch	5600	2/28	18	3.4	11.9	7.7
Dry Basin	7900	2/28	33	6.7	25.1	25.3*
#Emigrant Summit	7350	2/28	23	4.3	21.3	21.8*
Horseshoe Basin	8000	2/28	31	6.9	21.8	23.2*
Liberty Spring	8600	2/28	40	7.0	33.0	33.8*
Strawberry Creek	5800	2/28	10	2.1	11.6	9.6
Strawberry Mink Divide	6800	2/28	23	3.9	19.8	18.6
Cub River						
Cub River R. S.	5400	2/28	18	4.5	12.3	8.0
#Franklin Basin	8000	2/28	35	7.0	20.5	--
Willow Flat	6100	2/28	19	4.8	17.2	13.7
Worm Creek	6660	2/28	21	3.9	17.3	--
MALAD RIVER						
Cliff Canyon	7200	2/28	7	1.2	8.0	--
Daniels Creek	6400	2/28	6	0.8	7.7	--
Dry Creek Flat	6480	2/28	7	1.1	10.4	6.6
Lower Elkhorn	7000	2/28	10	1.8	12.9	12.4*
Oxford Mountain	6800	2/28	13	1.0	11.5	9.4
Upper Elkhorn	7100	2/28	19	3.4	17.7	16.0*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

1.573
36wi

WATER SUPPLY OUTLOOK FOR IDAHO

The Library of the
APR 27 1977
University of Illinois
at Urbana-Champaign

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
APR. 1, 1977

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with o resultant average effect on runoff. Early season forecosts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States ond in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state ond local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND OR 1976

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C.

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

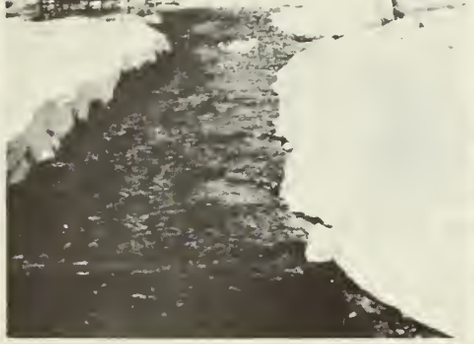
C. STEPHEN ALLRED
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
E. DON HUBBLE, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR APRIL 1, 1977

A critically low water supply continues to be the outlook for Idaho during 1977. Record low seasonal flows are projected for rivers and streams throughout the state. Many small streams are expected to produce very little flow and may be dry by the end of the season. Forecasts of seasonal streamflow vary from a low of 10 percent of average for the Bear River at Harer to a high of 63 percent of normal for the Henry's Fork near Ashton.

Snowfall during March was above to well above normal on all watersheds in Idaho. The increase in snowpack accumulation however, was not enough to overcome the extreme deficiencies existing on March 1. Practically all snow courses reported a record low snow water equivalent near April 1. In general, the maximum snowpack has accumulated by April 1 and as of April 1, 1977 the snowpack in Idaho ranges from a low of 14 percent of average on the Little Wood watershed to a high of 55 percent of normal on the Raft River. An extremely deficient snowpack exists on the Lost and Wood River drainages with the remainder of the state being somewhat more fortunate.

Soils beneath the snowpack are extremely dry and can be expected to absorb a significant amount of water before major runoff occurs. In many areas the soil will hold all the water in the snowpack.

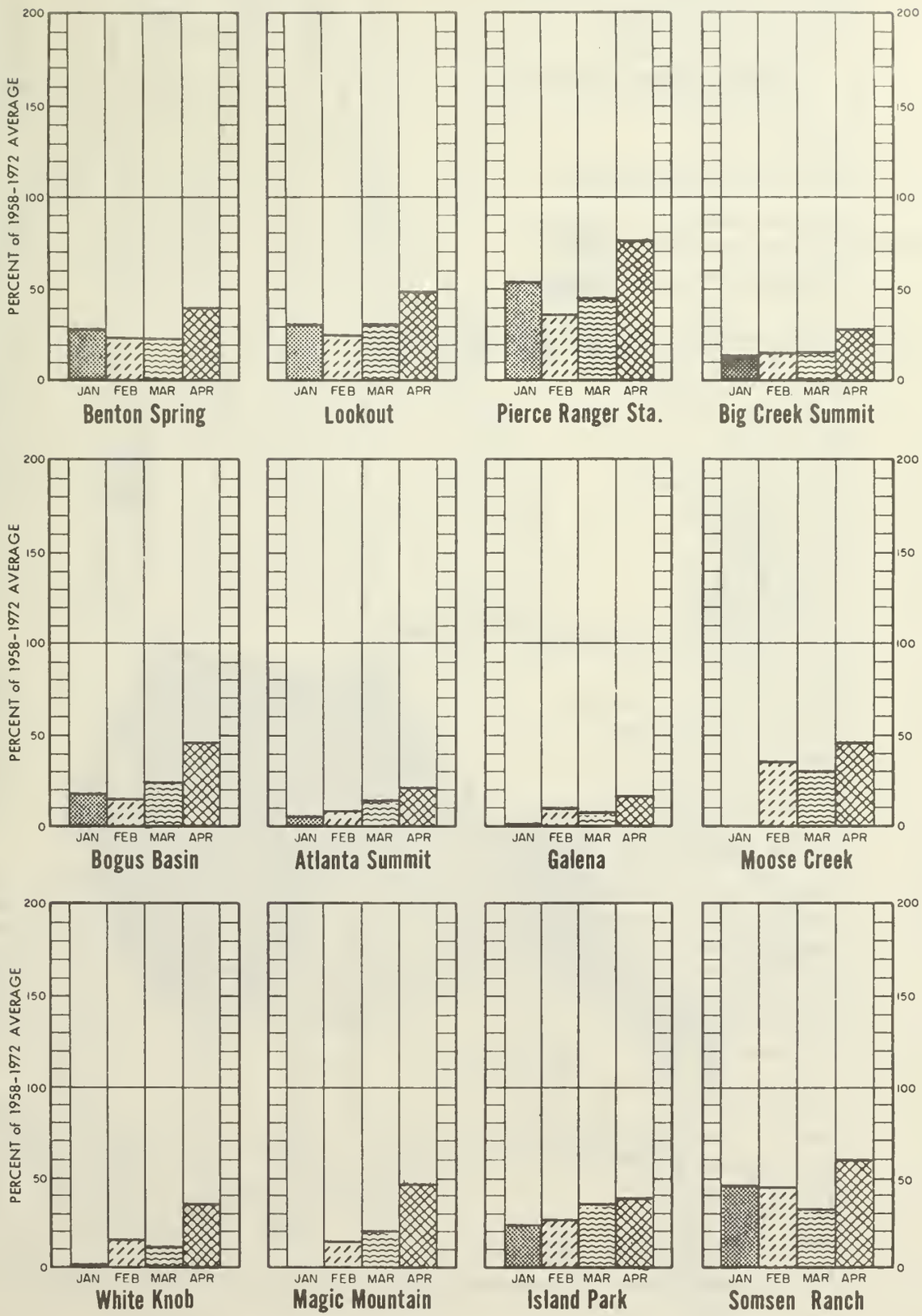
Valley precipitation during March was near to above normal in Northern and Central Idaho and below to significantly below average in the remainder of the state. Temperatures averaged near or slightly below normal for the month.

Irrigation reservoir storage is near to above average for this time of year, however, due to low runoff projections and early irrigation demands, it is doubtful that any of the reservoir systems will fill this year.

With severe to critical water shortages apparent for the coming season, all water users should take all steps possible to efficiently manage and conserve our water resource.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1958-1972 15 Yr. Average

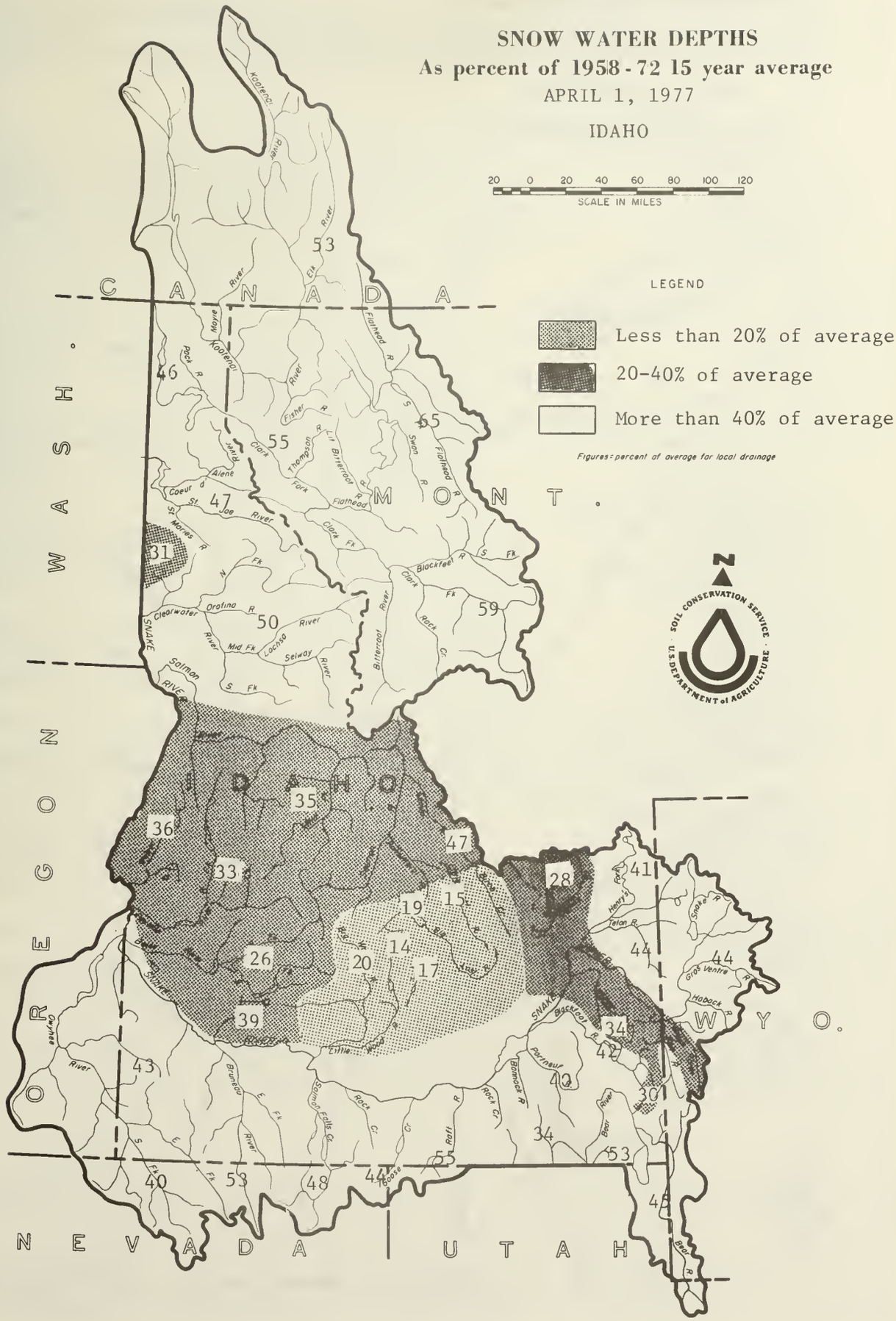
APRIL 1, 1977



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : LAST YEAR	1958–72 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River	43	48	53
Pend Oreille River	66	46	55
Clark Fork River	37	49	59
Flathead River	30	63	65
Priest River	4	50	46
Spokane River	16	45	47
LOWER SNAKE RIVER BASIN			
Palouse River	5	17	31
Clearwater River	23	47	50
Salmon River	22	32	35
Lemhi River	6	39	47
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River	5	19	19
Big Lost River	7	24	19
Fish Creek	2	16	17
Little Wood River	4	18	14
Big Wood River	10	22	20
Canyon Creek	1-3	16	39
Boise River	14	24	26
Payette River	15	30	33
Weiser River	2-6	35	36
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River	7	50	55
Goose-Trapper Creeks	3	36	44
Salmon Falls Creek	10	42	48
Bruneau River	5	49	53
Owyhee River	5	33	40
Jordan Creek	3	34	43
UPPER SNAKE RIVER BASIN			
Snake Basin - Wyoming	28	32	44
Camas-Beaver Creeks	3	30	28
Henrys Fork River	10-11	36	41
Teton River	2-11	38	44
Willow Creek	5-9	24	34
Blackfoot River	3-4	30	42
Portneuf River	4	31	40
GREAT BASIN			
Bear River	32	--	45
Montpelier Creek	4-5	29	30
Mink Creek	7	39	45
Cub River	3-4	38	53
Malad River	4-6	24	34

USDA SCS PORTLAND OREGON 1974 M7-L-220239


SNOW WATER DEPTHS
As percent of 1958-72 15 year average
APRIL 1, 1977
IDAHO
20 0 20 40 60 80 100 120
SCALE IN MILES
LEGEND
Less than 20% of average
20-40% of average
More than 40% of average
Figures=percent of average for local drainage
SOIL CONSERVATION SERVICE
U.S. DEPARTMENT of AGRICULTURE
CANADA
MONT.
WASH.
OREGON
IDAHO
WYO.
NEVADA
UTAH
Kootenai River
Elk River
Flathead R
Fisher R
Thompson R
Lit Bitterroot R
Swan R
Clark Fork
Flathead R
Coeur d Alene
St Joe River
St Maries R
Clark Fk
Blackfeet R
Clearwater
Orofino R
Lochsa River
Selway River
Mid Fk
Bitterroot River
Rock Cr
Salmon River
SNAKE RIVER
Henry's Fork
Teton R
Snake R
Gros Ventre R
Hoback R
Blackfoot R
Portneuf
Bannock R
Rock Cr
Raft R
Goose Cr
Salmon Falls Cr
Bruneau River
Owyhee River
Bear River
Bear R
Little Wood R
53
46
55
65
47
31
50
59
35
36
33
47
28
41
19
15
14
20
17
26
39
44
44
34
42
43
42
30
34
53
55
40
53
48
44
45

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2186.0	2245.0	2157.0
Flathead	1791.0	611.4	768.3	794.5
Pend Oreille	1155.1	646.3	466.2	477.1
Noxon	334.6	114.3	172.8	198.5
Spokane				
Coeur d'Alene	225.1	43.7	118.3	174.0
SNAKE BASIN				
Snake				
Jackson Lake	847.0	615.3	638.3	517.0
Palisades	1200.0	1165.8	572.4	794.4
American Falls	1125.0	1122.9	1086.3	998.2
Island Park	127.0	132.5	88.2	123.7
Grassy Lake	15.2	10.8	10.6	10.5
Brownlee	980.2	719.4	449.2	324.4*
Goose-Trapper Creeks				
Oakley	74.4	47.4	52.3	22.9
Salmon Falls Creek				
Salmon Falls	182.6	83.2	118.0	42.6
Big Lost				
Mackay	44.2	29.8	30.9	32.1
Big Wood				
Magic	191.5	80.0	150.7	115.1
Little Wood				
Little Wood	30.0	14.5	22.4	16.7
Fish Creek				
Carey Valley	13.0	6.2	8.0	--
Boise				
Anderson Ranch	423.2	330.9	245.8	229.9
Arrowrock	286.6	84.4	258.1	231.5
Lucky Peak	278.2	240.1	84.5	119.2
Lake Lowell (Deer Flat)	169.0	120.1	154.9	143.3
Owyhee				
Owyhee	715.0	523.1	667.0	509.2
Payette				
Cascade	653.2	363.9	318.8	304.9
Deadwood	161.9	89.2	102.1	84.6
Weiser				
Mann Creek	11.1	3.6	8.0	--
Clearwater				
Dworshak	2016.0	714.0	5.3	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1058.3	1034.8	974.9

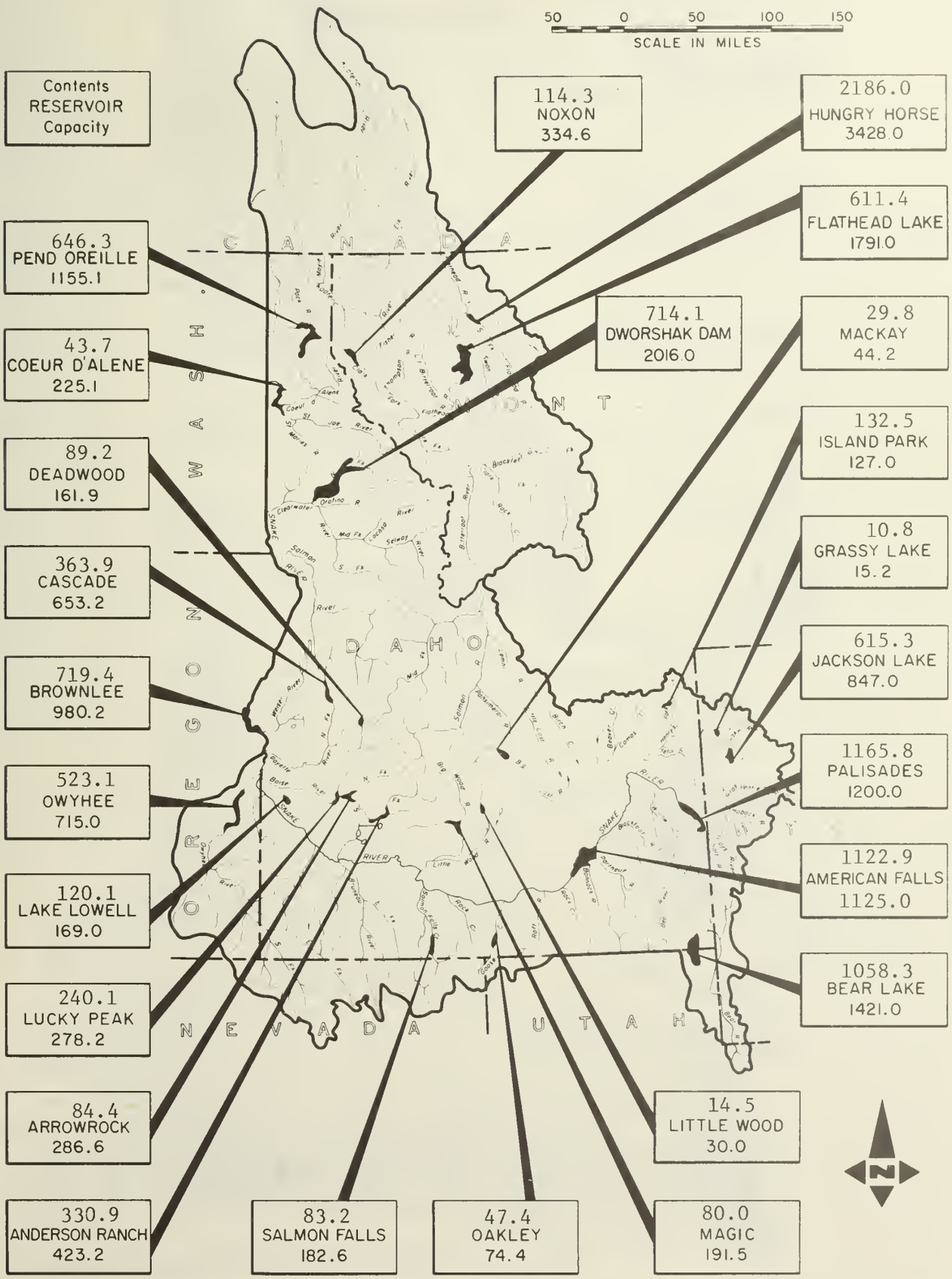
*Period of Record.

USDA SCS PORTLAND OREGON 1974 M7-L-22023R

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1977



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	4850	53	Apr-Sep	--	9073
		4150	52	Apr-Jul	--	7957
		3400	53	Apr-Jun	--	6431
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	7000	50	Apr-Sep	--	14336
		6350	49	Apr-Jul	--	13086
		5500	50	Apr-Jun	--	11325
Priest River						
Priest River 1/	(at)	450	51	Apr-Jul	--	879
SPOKANE RIVER						
Post Falls 2/	(at)	990	33	Apr-Sep	--	3008
St. Joe River						
Calder	(at)	430	32	Apr-Sep	--	1345
		410	32	Apr-Jul	--	1277
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	420	49	Apr-Sep	--	858
Palisades Inflow 3/		1200	46	Apr-Sep	--	3714
Heise 4/	(nr)	1750	44	Apr-Sep	--	3946
Blackfoot 5/	(nr)	2000	48	Apr-Jul	--	4173
Weiser	(at)	3000	46	Apr-Sep	--	6524
Henrys Fork						
Ashton 6/	(nr)	420	63	Apr-Sep	--	671
Rexburg 7/	(nr)	800	59	Apr-Sep	--	1364
Teton River						
St. Anthony	(nr)	250	57	Apr-Sep	--	442
Portneuf River						
Topaz	(at)	40	43	Mar-Sep	--	93
Oakley Reservoir Inflow		13	44	Mar-Sep	--	29.5

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

+ 1958-1972 period.

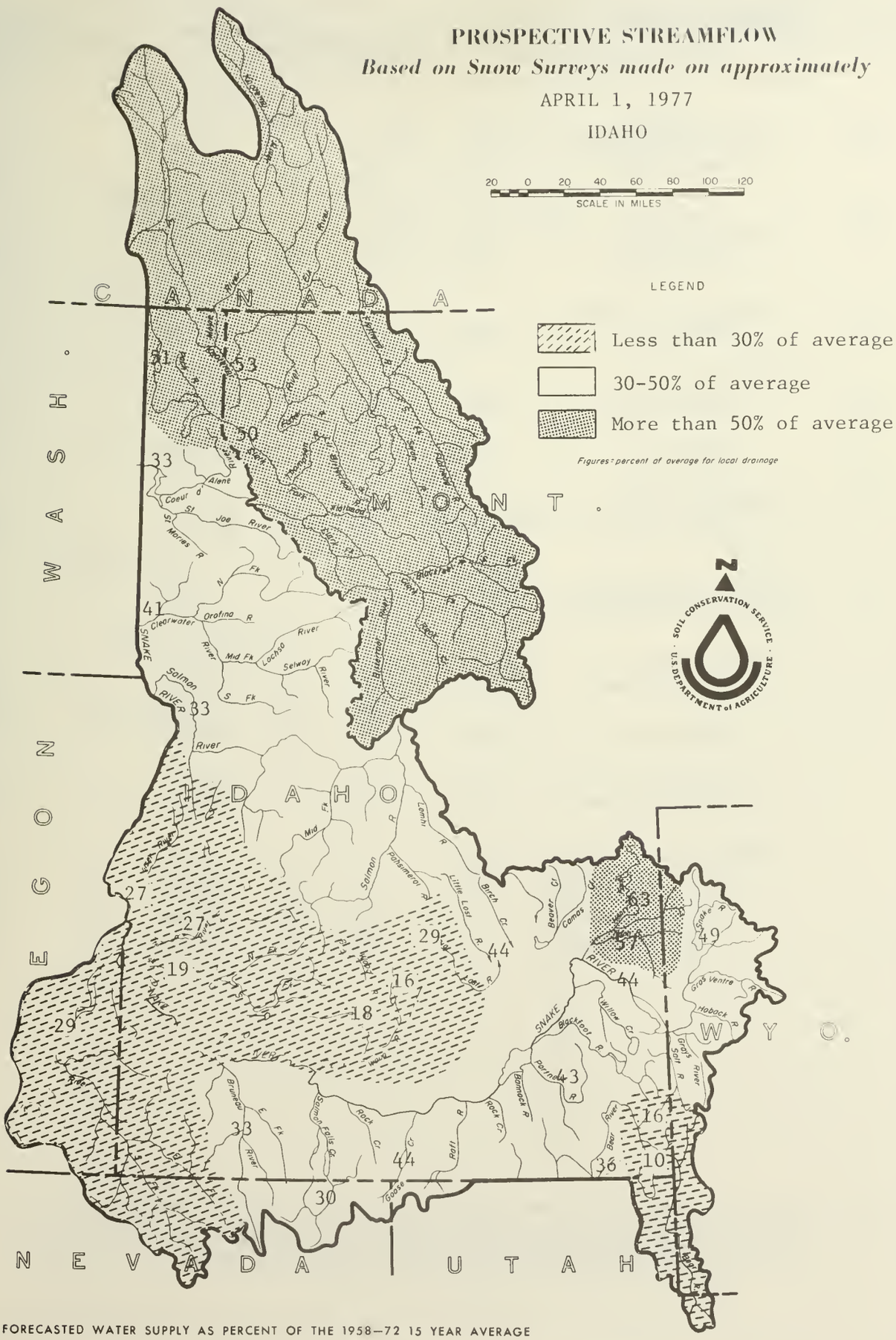
USDA SCS PORTLAND OREGON 1974 M7-0-22023N

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

APRIL 1, 1977

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958—72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Salmon Falls Creek						
San Jacinto	(nr)	25	30	Mar-Sep	--	84
		23	29	Mar-Jul	--	80
Bruneau River						
Hot Springs	(nr)	75	33	Mar-Sep	--	226
Little Lost River						
Howe	(nr)	18	44	Apr-Sep	--	41
Big Lost River						
Howell Ranch	(at)	60	29	Apr-Sep	--	208
Mackay 1/	(nr)	50	27	Apr-Sep	--	183
Big Wood River						
Magic Reservoir		55	18	Apr-Sep	--	301
Inflow 2/		60	19	Mar-Jul	--	310
Little Wood River						
High Five Creek	(ab)	15	16	Apr-Sep	--	94
Boise River						
Twin Springs	(nr)	135	19	Apr-Sep	--	720
		125	19	Apr-Jul	--	665
Boise 3/	(nr)	290	18	Apr-Sep	--	1612
South Fork						
Anderson Dam 4/	(at)	105	17	Apr-Sep	--	603
Owyhee River						
Gold Cr., Nev. 5/	(nr)	2	11	Apr-Jul	--	18
Owyhee, Nev. 5/	(nr)	9	13	Apr-Jul	--	68
Lake Owyhee		95	29	Apr-Sep	510	332
net inflow 6/		80	26	Apr-Jul	471	309

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir. 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

+ 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST (c) Thousand Acre Feet	THIS YEAR FORECAST (c) Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
Payette River						
Horseshoe Bend 1/	(nr)	500	27	Apr-Sep	--	1850
Banks 2/	(nr)	270	27	Apr-Jul	--	993
North Fork						
Cascade 3/	(at)	155	28	Apr-Sep	--	562
Banks 3/	(nr)	200	27	Apr-Sep	--	730
Weiser River						
Weiser ab. Crane Creek 4/		140	27	Mar-Sep	--	511
Salmon River						
Whitebird	(at)	2300	33	Apr-Sep	--	6959
Clearwater River						
Spalding	(at)	3500	41	Apr-Sep	--	8605
GREAT BASIN						
BEAR RIVER						
Harer	(at)	30	10	Apr-Sep	--	297
Montpelier Creek						
Montpelier	(nr)	2	16	Apr-Sep	--	12.4
Cub River						
Preston	(nr)	18	36	Apr-Sep	--	50

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. † 1958-1972 period.

USDA SCS PORTLAND OREGON 1974 M7-0-220235

VALLEY PRECIPITATION 1/

Division Averages and Departures

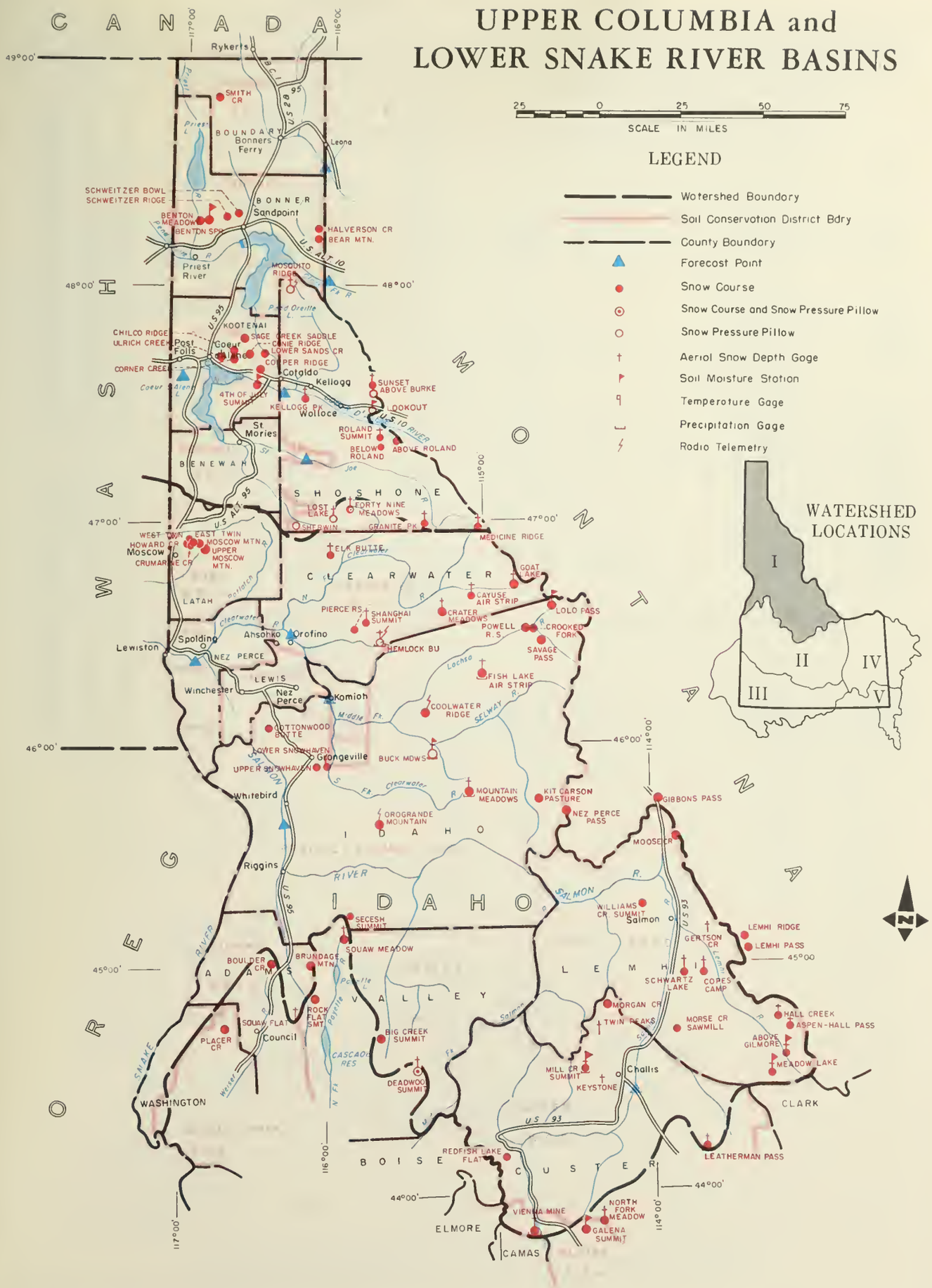
In Inches

DRAINAGE DIVISIONS	Winter March 1977		Fall - Winter Nov. 76 - Mar. 77	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U.S.	1.65	-0.09	6.34	-7.05
Flathead	1.54	+0.01	5.19	-5.54
Clark Fork	1.26	+0.04	3.77	-4.23
Pend Oreille-Spokane	2.33	-0.20	8.23	-9.32
Upper Snake	1.20	-0.32	4.02	-6.09
Snake River Plain	0.48	-0.30	1.28	-3.80
Salmon-Payette-Boise	1.44	-0.29	3.03	-8.76
Clearwater	3.12	+0.16	8.75	-9.13
Owyhee-Malheur	0.58	-0.27	1.82	-3.85

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-73) drainage division average.

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

KOOTENAI RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE - PRIEST RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

HAYDEN CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100

SPOKANE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	5920
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28 & 33	42N	1E	3200
15B9ASP	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P	I	West Twin	14	40N	5W	4250

CLEARWATER RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 & 9	29N	3E	5600

SALMON RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	34	10N	13E	6570
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E3A	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine	32	6N	14E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average /
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	3/30	89	30.5	--	65.7*
Halverson Creek	4850	3/30	79	26.5	--	50.7*
Smith Creek	4800	3/30	82	25.1	47.1	49.1
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	3/30	89	30.5	--	65.7*
Benton Meadow	2370	3/28	0	0.0	5.2	3.4
Benton Spring	4900	3/28	29	7.8	16.0	19.4
#Mosquito Ridge	5110	3/31	61	19.6	41.4	40.3
Schweitzer Bowl	4500	3/30	51	17.8	28.5	31.7*
Schweitzer Ridge	6100	3/30	64	21.4	44.3	48.3*
HAYDEN LAKE						
Chilco Ridge	3650	3/30	7	2.6	10.3	--
Conie Ridge	3900	3/30	12	3.8	11.1	--
Corner Creek	3150	3/30	16	5.2	11.6	--
Sage Creek Saddle	4100	3/30	32	10.2	21.0	--
SPOKANE RIVER						
Above Burke	4100	3/28	50	15.3	29.6	25.6*
Above Roland	4350	3/31	48	15.0	41.3	35.8*
Below Roland	3770	3/31	15	5.1	20.3	17.4*
Copper Ridge	4800	3/29	46	14.6	31.6	30.1
#Forty-nine Meadows	4880	4/4	54	13.6	29.6	34.9
Fourth of July Summit	3200	3/28	17	6.0	13.6	7.8
Granite Peak	6000	4/4	78	19.8	43.6	47.5*
Kellogg Peak	5560	3/31	50	15.2	37.9	34.7*
Lookout	5120	3/28	62	18.6	39.0	38.1
#Lost Lake	6000	4/4	91	25.2	56.2	62.1*
Lower Sands Creek	3400	3/29	36	12.1	22.4	20.7
Medicine Ridge	5920	4/4	82	20.5	47.4	48.1*
Mosquito Ridge	5110	3/31	61	19.6	41.4	40.3
Mosquito Ridge (SP)	5110	3/31	--	19.0	--	--
Roland Summit	5200	3/31	49	16.0	47.9	39.2*
Sherwin	3200	4/1	25	6.9	18.7	13.8*
Sunset	5600	3/31	57	18.0	43.6	39.3*
LOWER SNAKE RIVER BASIN						
PALOUSE RIVER						
Crumarine Creek	3340	4/4	0	0.0	12.7	4.1*
East Twin	4050	4/3	10	3.2	17.2	9.6

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
PALOUSE RIVER (Continued)							
Howard Creek		3500	4/4	0	0.0	8.4	1.4
Moscow Mountain		4400	4/3	24	7.2	23.6	17.7
West Twin		4250	4/3	8	2.6	15.0	8.7
CLEARWATER RIVER							
Buck Meadows		5650	3/30	69	15.7	34.1	29.7*
Cayuse Airstrip		3700	4/4	19	5.3	11.2	9.6
Coolwater Mountain		6200	3/30	78	19.6	42.2	32.9*
Cottonwood Butte		5140	3/28	34	6.0	17.2	--
Crater Meadows		6100	4/4	92	25.5	45.4	48.7*
Crooked Fork		3600	3/31	31	9.0	18.5	14.3*
Elk Butte		5550	4/4	68	19.2	39.8	39.6*
Fish Lake Airstrip		5000	3/30	74	18.9	45.6	42.4
Forty-nine Meadows		4880	4/4	54	13.6	29.6	34.9
Goat Lake		6600	3/30	89	23.1	49.4	52.1*
#Granite Peak		6000	4/4	78	19.8	43.6	47.5*
Hemlock Butte		5500	4/4	96	26.8	50.4	52.9*
#Hoodoo Basin	Mont.	6000	3/31	82	23.0	62.7	53.8
#Hoodoo Creek	Mont.	5900	3/31	75	22.4	58.4	50.3
Kit Carson Pasture		5020	3/31	29	8.5	12.9	9.1
Lolo Pass		5240	3/31	56	15.4	38.1	32.8
Lost Lake		6000	4/4	91	25.2	56.2	62.1*
Lower Snowhaven		5300	3/28	44	10.6	24.9	--
#Medicine Ridge		5920	4/4	82	20.5	47.4	48.1*
Mountain Meadows		6300	3/30	68	14.9	27.8	26.1*
#Nez Perce Pass	Mont.	6575	3/31	44	12.5	24.6	17.3
Orogrande Mountain		7800	3/30	96	20.5	41.6	40.6*
Pierce Ranger Station		3170	3/31	22	7.1	14.7	9.4
Savage Pass		6170	3/30	60	15.4	34.0	28.3
Shanghai Summit		4600	4/4	50	14.3	28.8	28.2*
Upper Snowhaven		5600	3/28	42	10.7	22.8	--
SALMON RIVER							
Big Creek Summit		6600	3/26	40	10.9	41.5	37.4
Borah (A)		8250	4/4	11	1.7	6.8	--
#Boulder Creek		5500	3/31	29	8.8	25.0	24.8
Brundage Mountain		7560	3/29	60	15.8	52.2	49.1*
#Deadwood Summit		7000	3/29	49	11.6	45.7	47.0
Double Springs Pass (A)		8400	4/4	12	1.9	12.1	--
#Galena Summit		8795	3/30	27	5.8	24.8	25.0
#Gibbons Pass	Mont.	7100	3/29	54	9.5	29.1	23.7
Leatherman Pass		9800	4/4	37	9.5	25.6	--
#Lemhi Pass	Mont.	7480	4/3	27	5.6	13.6	9.2
#Lemhi Ridge	Mont.	8100	4/3	31	6.1	15.5	10.4
Mill Creek Summit		8870	4/2	33	6.7	27.4	23.6

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
		LITTLE LOST RIVER				
13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7450
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7600
		BIG LOST RIVER				
13F3	I	Bear Canyon	26	5N	21E	7920
13F2A	I	Copper Basin	24	6N	21E	7650
13F8A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	19	6N	19E	7900
14F2A	I	Stickney Mill	9	6N	19E	7500
13F1	I	White Knob	25	7N	23E	7700
		BIG WOOD RIVER				
15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12MPS	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100
		LITTLE WOOD RIVER				
13F4	I	Garfield Ranger Station	11	3N	21E	6554
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7650
		FISH CREEK				
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000
		BOISE RIVER				
15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5360
14F10	I	Couch Summit	9	2N	14E	6950
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7000
15F1MPSR	I	Moores Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4900
15F3A	I	Road Creek	5	5N	8E	5550
15FAPSR	I	Trinity Mountain	6	3N	9E	7780
		CANYON CREEK				
15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950
		PAYETTE RIVER				
16F2PS	I	Bogus Basin	16	5N	3E	6120
15E8PSR	I	Cozy Cove	19	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E7	I	Deadwood Dam	8	11N	7E	5290
15E4AS	I	Deadwood Summit	23	14N	7E	7000
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5200
15D1	I	Secesh Summit	34	22N	4E	6520
15D2	I	Squaw Meadow	5	21N	4E	5800
16E3	I	Tripod Summit	17	11N	3E	5200
		WEISER RIVER				
16D1P	I	Boulder Creek	15	20N	1W	5500
16E2	I	Placer Creek	15&16	17N	3W	6000
		MANN CREEK				
16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	21	15N	5W	6800
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE ANO PRECIPITATION GAGE.
10J7M	SNOW COURSE ANO SOIL MOISTURE STATION.
10J7A	SNOW COURSE ANO AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S.	SNOW COURSE ANO PRESSURE PILLOW.
10J7MA	SNOW COURSE. SOIL MOISTURE STATION ANO AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION ANO PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RAOIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b/
SALMON RIVER (Continued)						
Moose Creek	6200	3/31	37	7.7	19.3	16.9
Morgan Creek	7580	4/2	29	5.7	18.0	14.1*
Morse Creek Sawmill	7120	4/1	23	4.0	12.0	--
Redfish Lake Flat	6570	3/31	18	4.9	14.8	--
#Rock Flat Summit	5200	3/29	34	6.9	19.0	18.6
#Secesh Summit	6520	3/25	43	11.6	37.7	37.6*
#Squaw Meadow	5800	3/25	39	11.3	36.8	37.6
Twin Peaks (A)	10300	4/2	48	9.7	31.3	--
Vienna Mine	8960	3/29	42	10.4	36.9	38.7
Williams Creek Summit	7800	3/30	20	4.8	17.8	13.4
Lemhi River						
Above Gilmore	8200	4/4	18	4.6	11.8	10.5*
Aspen-Hall Pass (A)	8110	4/4	27	6.1	13.2	9.6*
Copes Camp	7500	4/4	19	4.4	11.0	8.4*
Hall Creek	7560	4/4	19	3.0	7.5	5.4*
Meadow Lake	9100	4/4	29	8.0	21.0	20.5*
Schwartz Lake	8500	4/4	27	6.1	19.0	13.4*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE						
LITTLE LOST RIVER						
Fairview Guard Station	6750	3/31	0	0.0	4.5	3.1
Lost Garfield	6600	3/31	0	0.0	4.8	2.6
Moonshine	7450	3/31	15	2.6	10.9	11.2
Sawmill Canyon	6900	3/31	10	2.2	7.7	7.9
Wet Creek Summit	7600	3/31	12	2.5	11.1	13.1
BIG LOST RIVER						
Bear Canyon	7920	3/31	16	3.7	13.4	19.4
Copper Basin	7650	3/31	0	0.0	8.6	10.5
Iron Bog	7650	3/29	8	1.9	10.0	14.6*
Leadbelt	6800	3/29	6	1.6	6.4	9.4*
#Leatherman Pass	9800	4/4	37	9.5	25.6	--
Lost-Wood Divide	7900	3/31	23	6.0	23.5	23.7
Stickney Mill	7500	3/31	10	2.2	9.8	10.3
White Knob	7700	4/1	16	3.5	7.3	10.0*
FISH CREEK						
Iron Mine Creek	6370	3/29	12	2.8	10.1	10.2
Telfer Ranch	6000	3/29	0	0.0	7.6	6.6

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

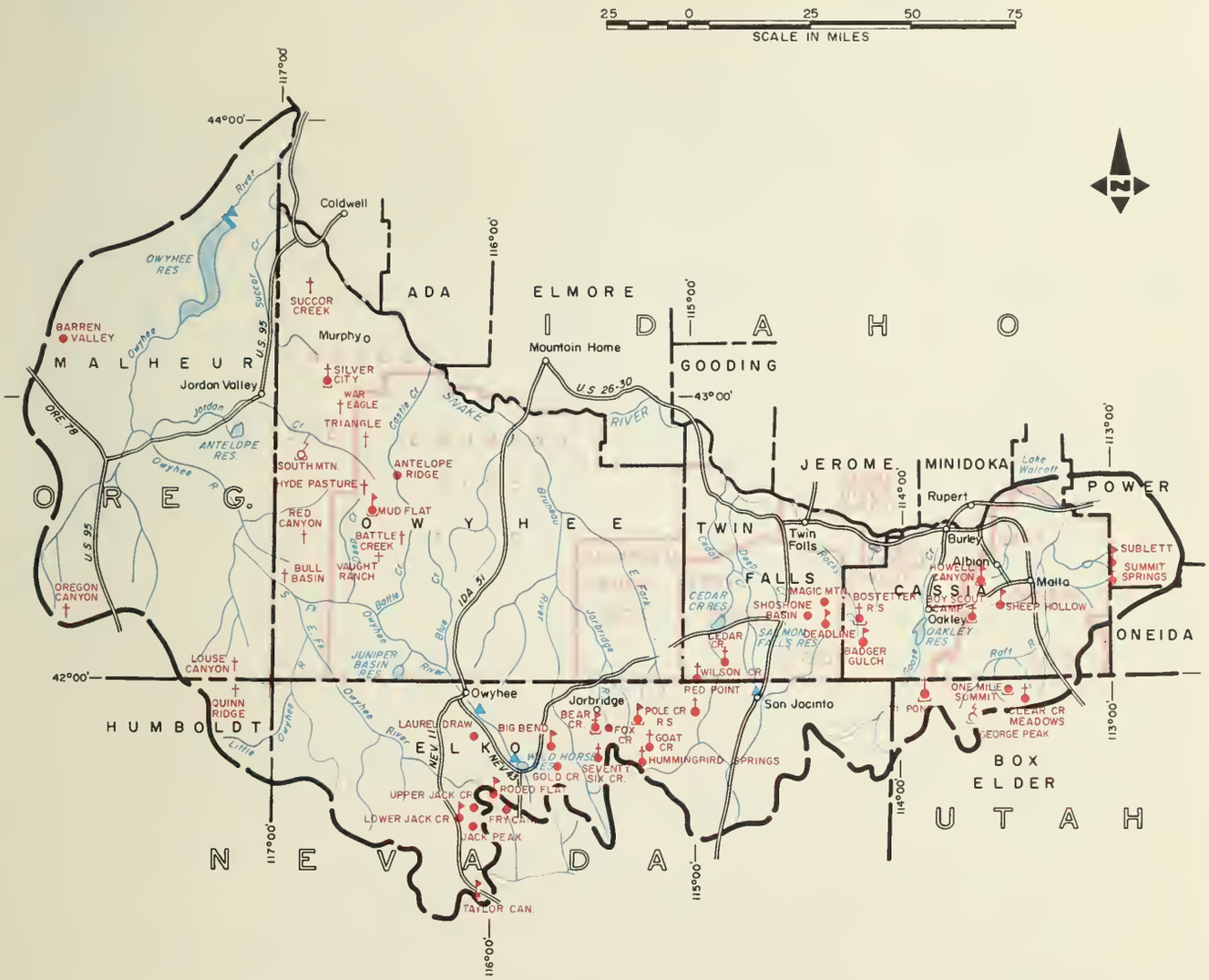
USDA-SCS PORTLAND OREGON 1976 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b/
LITTLE WOOD RIVER						
#Bear Canyon	7920	3/31	16	3.7	13.4	19.4
Garfield Ranger Station	6554	4/1	0	0.0	8.0	10.3
Muldoon	6300	4/1	0	0.0	6.2	7.1
Swede Peak	7650	4/1	15	3.8	14.2	17.8
BIG WOOD RIVER						
Camas Creeks Divide	5720	4/2	0	0.0	13.0	--
#Couch Summit	6950	3/25	14	3.3	17.6	19.0
Dollarhide Summit	8620	3/31	20	4.4	22.2	24.6*
Galena	7300	3/30	16	3.4	18.3	19.8
Galena Summit	8795	3/30	27	5.8	24.8	25.0
Graham Ranch	6200	3/30	9	1.8	11.6	13.6
#Lost-Wood Divide	7900	3/31	23	6.0	23.5	23.7
Mascot Mine	7900	3/31	14	2.9	13.2	13.9
Mount Baldy	9000	3/29	21	4.6	18.1	21.2
Soldier Ranger Station	6100	3/25	0	0.0	10.4	9.6
#Vienna Mine	8960	3/29	42	10.4	36.9	38.7
CANYON CREEK						
Bennett Mountain	6650	4/2	21	6.8	20.1	17.5*
#Camas Creeks Divide	5720	4/2	0	0.0	13.0	--
Little Camas Flat	4950	4/2	0	0.0	9.0	--
BOISE RIVER						
Atlanta Summit	7500	3/29	34	7.4	35.9	36.0
Bad Bear	5500	3/31	13	4.1	18.7	13.2*
#Bennett Mountain	6650	4/2	21	6.8	20.1	17.5*
#Bogus Basin	6120	3/31	37	11.2	23.7	24.2
Bogus Basin Road	5360	3/31	0	0.0	3.8	1.4
#Camas Creeks Divide	5720	4/2	0	0.0	13.0	--
Couch Summit	6950	3/25	14	3.3	17.6	19.0
Deadman Gulch	5600	3/31	27	7.4	19.2	15.4*
#Dollarhide Summit	8620	3/31	20	4.4	22.2	24.6*
Graham Guard Station	5690	3/29	17	4.1	20.7	--
Jackson Peak	7000	3/29	37	9.2	35.5	32.4
#Little Camas Flat	4950	4/2	0	0.0	9.0	--
Moores Creek Summit	6100	3/31	40	10.0	38.9	33.3
Prairie	4900	3/31	0	0.0	10.0	2.8
Road Creek	5550	3/29	7	2.1	12.4	8.1
#Soldier Ranger Station	6100	3/25	0	0.0	10.4	9.6
Trinity Mountain	7780	3/29	39	9.8	41.1	42.9
#Vienna Mine	8960	3/29	42	10.4	36.9	38.7

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

BRUNEAU RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.
16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE¼ 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	.40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N½ 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b/
PAYETTE RIVER						
#Big Creek Summit	6600	3/26	40	10.9	41.5	37.4
Bogus Basin	6120	3/31	37	11.2	23.7	24.2
#Brundage Mountain	7560	3/29	60	15.8	52.2	49.1*
Cozy Cove	5400	3/29	22	5.2	19.2	16.2
Crawford Ranger Station	4800	3/26	0	0.0	9.0	6.3
#Deadman Gulch	5600	3/31	27	7.4	19.2	15.4*
Deadwood Airstrip	5440	3/29	23	5.4	17.7	15.3
Deadwood Summit	7000	3/29	49	11.6	45.7	47.0
High Valley Summit	5170	3/31	29	6.1	17.1	11.8*
#Jackson Peak	7000	3/29	37	9.2	35.5	32.4
Lake Fork	6000	3/25	26	6.0	20.2	16.1
Rock Flat Summit	5200	3/29	34	6.9	19.0	18.6
Secesh Summit	6520	3/25	43	11.6	37.7	37.6*
Squaw Meadow	5800	3/25	39	11.3	36.8	37.6
Tripod Summit	5200	3/31	33	8.3	24.3	18.3*
WEISER RIVER						
Boulder Creek	5500	3/31	29	8.8	25.0	24.8
Placer Creek	6000	3/31	27	6.7	18.8	18.2
MANN CREEK						
Mann Creek	6080	4/3	35	10.6	23.5	--
Robinson Creek Ridge	6220	4/3	12	5.0	16.3	--
Sturgill Ridge	6800	4/3	36	10.7	28.1	--
Thorson Cabin	5320	4/3	16	4.7	16.0	--
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Boy Scout Camp	7760	3/30	39	10.9	15.0	15.0
Clear Creek Meadows Utah	9050	3/30	40	9.5	18.0	21.6*
George Peak Utah	9000	3/30	38	9.8	25.2	--
Howell Canyon	8000	3/30	36	11.1	32.3	25.7
One Mile Summit Utah	7330	3/30	17	4.0	5.3	8.0*
Sheep Hollow	6200	3/30	24	7.5	7.6	4.8*
Sublett	6000	3/30	17	4.5	12.6	10.3
Summit Springs	6400	3/30	14	4.4	13.5	9.2
GOOSE CREEK						
Badger Gulch	6660	3/30	20	5.4	14.4	12.0
Bostetter Ranger Station	7500	3/30	32	8.3	24.0	19.5
Vi Pont Utah	7670	3/30	26	6.5	17.5	14.4*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

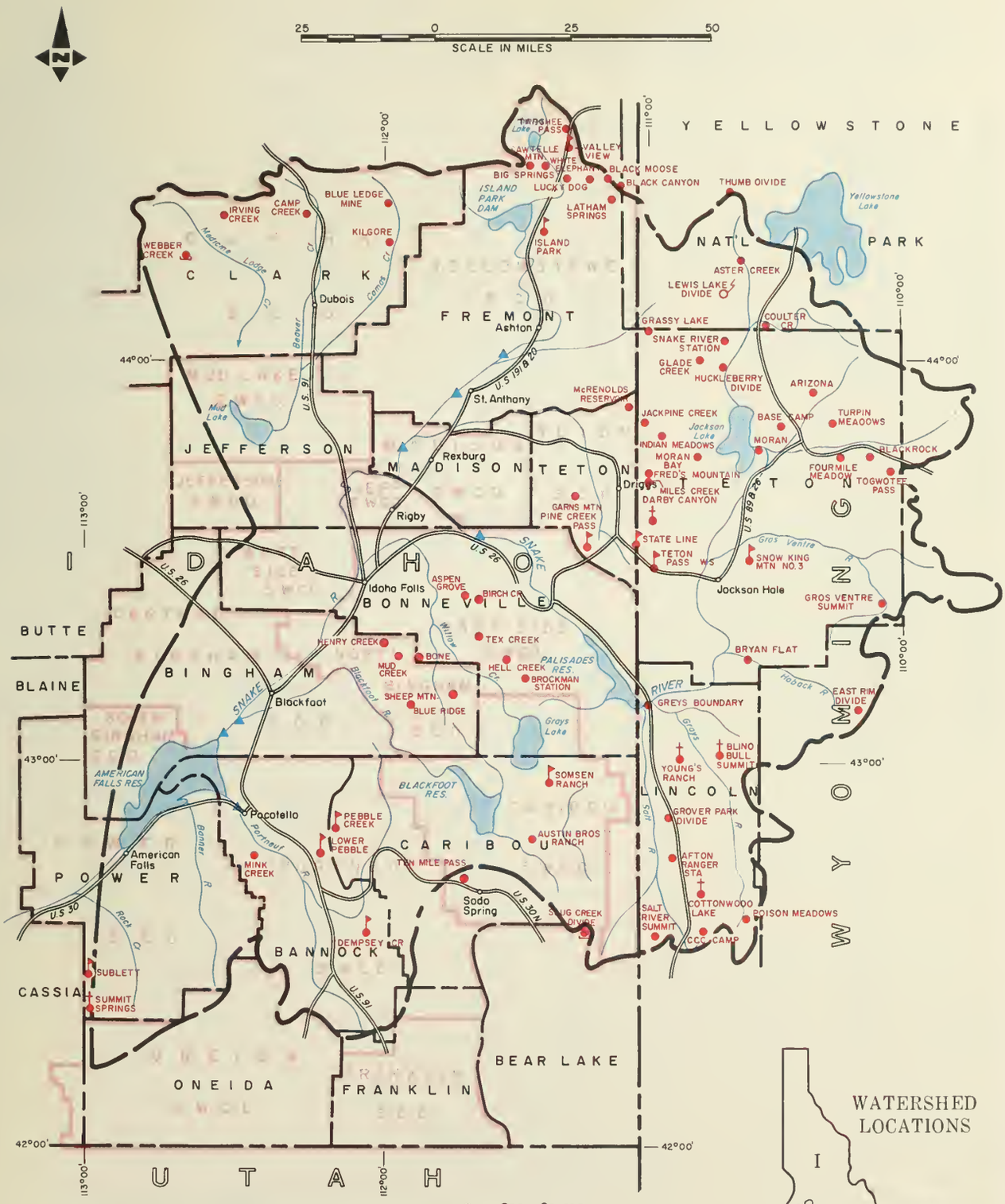
USDA SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
						Water Content (inches)	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b
SALMON FALLS CREEK							
#Bear Creek	Nev.	7800	3/30	48	11.7	22.8	20.8
Cedar Creek		7000	3/30	12	3.6	13.3	9.3
Deadline		6900	3/30	26	8.6	28.0	22.9
#Fox Creek	Nev.	6800	3/30	21	6.6	11.6	10.0*
Goat Creek	Nev.	8800	3/30	38	8.6	18.4	18.8
#Hummingbird Springs	Nev.	8945	3/30	46	10.4	22.9	23.7
Magic Mountain		6700	3/30	26	8.6	22.1	18.7
#Pole Creek R.S.	Nev.	8330	3/30	47	12.6	24.7	20.6
Shoshone Basin		5740	3/30	0	0.0	10.2	3.7*
Wilson Creek		7500	3/30	20	6.2	10.3	12.1*
BURNEAU RIVER							
Bear Creek	Nev.	7800	3/30	48	11.7	22.8	20.8
Fox Creek	Nev.	6800	3/30	21	6.6	11.6	10.0*
Hummingbird Springs	Nev.	8945	3/30	46	10.4	22.9	23.7
Pole Creek R.S.	Nev.	8330	3/30	47	12.6	24.7	20.6
#Seventy-six Creek	Nev.	7100	3/30	18	4.8	12.4	11.6*
OWYHEE RIVER							
Antelope Ridge		5900	4/2	4	1.2	6.8	5.5*
Battle Creek (A)		5700	3/31	0	0.0	3.8	1.8*
#Bear Creek	Nev.	7800	3/30	48	11.7	22.8	20.8
Bull Basin (A)		5600	3/31	0	0.0	0.0	0.5*
#Fox Creek	Nev.	6800	3/30	21	6.6	11.6	10.0*
Hyde Pasture (A)		5800	3/31	0	0.0	3.8	3.0*
Mud Flat		5500	4/2	2	0.5	7.9	4.4
Red Canyon (A)		6650	3/31	8	2.0	6.7	4.6*
#Seventy-six Creek	Nev.	7100	3/30	18	4.8	12.4	11.6*
Silver City		6400	3/31	25	7.0	17.4	15.1
South Mountain		6340	4/2	19	6.3	14.8	12.4
Succor Creek (A)		6100	3/31	12	3.4	9.3	4.6*
Triangle (A)		5150	3/31	0	0.0	0.0	0.2*
Vaught Ranch (A)		5950	3/31	0	0.0	3.8	1.3*
War Eagle (A)		7700	3/31	35	9.8	28.5	22.2*
UPPER SNAKE RIVER BASIN							
CAMAS-BEAVER CREEKS							
Blue Ledge Mine		6700	3/30	22	5.3	16.4	17.2
Camp Creek		6800	3/31	12	2.3	8.3	10.4
Kilgore		6200	3/30	13	3.2	10.9	10.9

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

UPPER SNAKE RIVER BASIN



INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE.	ELEV.
10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'		110° 38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'		110° 33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'		110° 40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'		110° 35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE.	ELEV.
11E9	I	Big Springs	34	14N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	29	13N	43E	6315
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6500
11E36	I	White Elephant	17	14N	43E	7700

TETON RIVER

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400

CAMAS - BEAVER CREEK

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
11F10	I	Aspen Grove	35	2N	41E	6600
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	33	2S	41E	6510
11F5R	I	Tex Creek	6	1S	42E	6700

SAND CREEK

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
11F6	I	Henry Creek	7	1S	39E	5650

BLACKFOOT RIVER

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250

PORTNEUF RIVER

NO.	STATE	NAME	SEC LAT.	TWP. OR AND	RGE	ELEV
12G5	I	Dempsey Creek	17	10S	38E	6280
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average ½
HENRYS FORK RIVER							
Big Springs		6400	3/31	30	7.7	24.6	21.3
Black Canyon		7850	3/30	46	13.2	44.6	34.0*
Black Moose		8125	3/30	45	14.4	48.2	39.8*
Grassy Lake	Wyo.	7265	3/29	62	18.1	50.3	35.0
Island Park		6315	3/31	25	6.4	21.5	16.4
Latham Springs		7630	3/30	47	14.4	44.4	32.6*
Lucky Dog		6900	3/30	34	10.6	29.4	24.2*
Sawtell Mountain		8720	3/31	53	13.7	36.8	35.3*
Targhee Pass		7000	3/31	28	6.1	19.3	16.2*
Valley View		6500	3/31	25	6.3	21.6	17.7
White Elephant		7700	3/31	38	10.2	30.4	--
TETON RIVER							
Darby Canyon	Wyo.	8250	3/31	52	13.1	31.2	--
Freds Mountain	Wyo.	8150	3/31	57	13.6	33.8	--
Garns Mountain		8300	3/31	54	15.7	47.6	--
Indian Meadows	Wyo.	8240	3/31	62	16.8	48.1	--
Jackpine Creek	Wyo.	7350	3/31	39	10.7	30.6	--
McRenolds Reservoir		6800	3/31	37	10.2	27.9	--
Miles Creek	Wyo.	7300	3/31	36	9.7	17.0	--
Phillips Bench	Wyo.	8200	3/30	52	15.6	36.0	--
Pine Creek Pass		6750	3/31	30	7.4	25.0	17.7*
State Line		6650	3/31	31	7.0	20.3	14.9
Teton Pass W.S.	Wyo.	8400	3/30	46	13.1	35.7	--
WILLOW CREEK							
Aspen Grove		6600	3/28	24	4.5	18.2	11.3*
Birch Creek		6800	3/28	16	4.0	17.2	13.9*
Blue Ridge		6800	3/28	18	5.3	23.5	--
Bone		6200	3/28	6	1.5	11.5	6.8*
Brockman Station		6430	3/28	14	3.8	14.8	--
Hell Creek		7100	3/28	20	4.8	19.2	--
Mud Creek		7150	3/28	20	5.0	20.2	--
Sheep Mountain		6510	3/28	20	4.6	19.2	13.3*
Tex Creek		6700	3/28	19	3.8	14.9	9.2*
SAND CREEK							
Henry Creek		5650	3/28	5	0.3	5.8	0.9*
BLACKFOOT RIVER							
Austin Bros. Ranch		6400	3/28	0	0.0	13.1	8.8
Slug Creek Divide		7225	3/31	30	8.4	22.3	17.3
Somsen Ranch		7000	3/28	28	8.1	19.8	13.5
Ten Mile Pass		6250	3/28	18	3.7	12.9	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

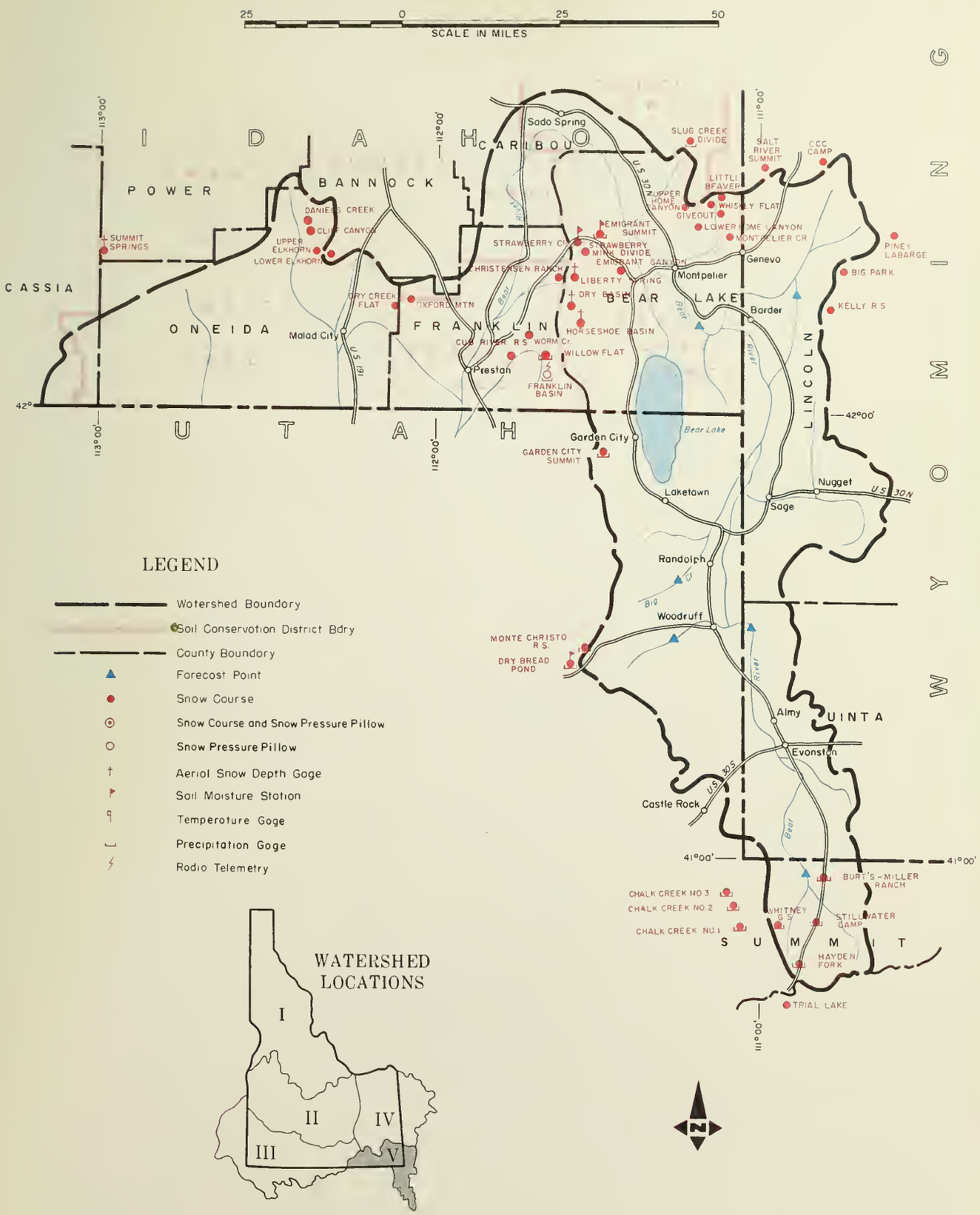
USDA-SCS PORTLAND OREGON 1974 M7-0-22023P

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (Inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
PORTNEUF RIVER						
Dempsey Creek	6280	4/1	24	5.5	16.0	12.4
Lower Pebble	5800	4/1	20	4.5	19.5	12.8*
Mink Creek	6300	4/2	30	8.7	23.2	17.4
Pebble Creek	6550	4/1	19	5.2	19.5	16.7
GREAT BASIN						
BEAR RIVER						
Emigrant Summit	7350	3/28	40	10.1	28.0	25.4
Emigration Canyon	6500	3/28	20	4.8	15.4	10.7
Montpelier Creek						
Giveout	6840	3/31	20	4.7	16.9	12.5*
Little Beaver	6970	3/31	23	5.7	19.7	16.1*
Lower Home Canyon	7500	4/1	33	7.9	17.7	--
Montpelier Creek	6570	3/31	5	1.0	11.1	8.4*
Upper Home Canyon	8500	4/5	40	11.7	30.9	--
Whiskey Flat	6985	3/31	9	2.6	9.9	9.3*
Mink Creek						
Christensen Ranch	5600	3/30	19	5.1	13.3	7.1
Dry Basin	7900	3/30	50	13.2	33.5	30.0*
#Emigrant Summit	7350	3/28	40	10.1	28.0	25.4
Horseshoe Basin	8000	3/30	47	13.4	30.0	28.1*
Liberty Spring	8600	3/30	64	16.8	42.0	40.1*
Strawberry Creek	5800	3/28	18	4.7	13.6	10.0
Strawberry Mink Divide	6800	3/30	36	9.0	24.2	21.5
Cub River						
Cub River R.S.	5400	3/30	18	5.7	14.5	6.1
#Franklin Basin	8000	3/30	48	14.0	30.8	28.0
Willow Flat	6100	3/30	21	6.0	21.2	14.4
Worm Creek	6660	3/30	29	8.3	23.9	--
MALAD RIVER						
Cliff Canyon	7200	3/30	12	2.8	10.6	--
Daniels Creek	6400	3/30	4	1.3	9.7	--
Dry Creek Flat	6480	3/30	0	0.0	10.8	3.3
Lower Elkhorn	7000	3/30	17	5.1	15.2	13.1*
Oxford Mountain	6800	3/30	15	3.8	12.1	8.9
Upper Elkhorn	7100	3/30	26	5.9	20.0	18.7*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

GREAT BASIN


25 0 25 50
SCALE IN MILES
I D A H O
W Y O M I N G
U T A H
POWER
BANNOCK
CARIBOU
CASSIA
ONEIDA
FRANKLIN
BEAR LAKE
LINCOLN
UINTA
SUMMIT
Sodo Spring
SLUG CREEK DIVIDE
SALT RIVER SUMMIT
CCC CAMP
LITTLE BEAVER
WHISKEY FLAT
UPPER HOME CANYON
GIVEOUT
LOWER HOME CANYON
MONTPELIER CR
PINEY LABARGE
BIG PARK
KELLY R S
DANIELS CREEK
CLIFF CANYON
UPPER ELKHORN
LOWER ELKHORN
SUMMIT SPRINGS
EMIGRANT SUMMIT
STRAWBERRY CR
STRAWBERRY MILK DIVIDE
EMIGRANT CANYON
CHRISTENSEN RANCH
LIBERTY SPRING
DRY BASIN
HORSESHOE BASIN
WORM CR.
WILLOW FLAT
FRANKLIN BASIN
CUB RIVER R S
DRY CREEK FLAT
OXFORD MTN
Malad City
Preston
Montpelier
Genevo
Barder
Garden City
GARDEN CITY SUMMIT
Bear Lake
Laketown
Sage
Nugget
Randolph
Woodruff
MONTE CHRISTO R S.
DRY BREAD POND
Almy
Evanston
Castle Rock
BURT'S-MILLER RANCH
CHALK CREEK NO 3
CHALK CREEK NO 2
CHALK CREEK NO 1
WHITNEY G S
STILLWATER CAMP
HAYDEN FORK
TRIAL LAKE
U.S. 30N
U.S. 191
U.S. 30S
113°00'
112°00'
111°00'
42°
42°00'
41°00'
LEGEND
Watershed Boundary
Soil Conservation District Bdry
County Boundary
Forecast Point
Snow Course
Snow Course and Snow Pressure Pillow
Snow Pressure Pillow
Aerial Snow Depth Gage
Soil Moisture Station
Temperature Gage
Precipitation Gage
Radio Telemetry
WATERSHED LOCATIONS
I
II
III
IV
V
N

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. / LAT.	TWP. OR AND	RGE. / LONG.	ELEV.

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

USDA SCS PORTLAND OREG 1975 M7-OL-22023 5

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
- Forest Service
- Agricultural Research Service
- Statistical Reporting Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of the Interior
- Bonneville Power Administration
- Bureau of Reclamation
- Fish and Wildlife Service
- Water Resources Division, Geological Survey
- National Park Service
- Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

51.573
n36wi

WATER SUPPLY OUTLOOK FOR IDAHO

The Library of the
JUN 8 1977
University of Illinois
at Urbana-Champaign

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAY 1, 1977

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OR 1976

WATER SUPPLY OUTLOOK

IMPORTANT NOTICE
REVISION OF FREE MAILING LIST

IF YOU WISH TO CONTINUE to receive this publication, please turn to the back page, read the instructions, ----- TEAR OFF THE BACK COVER of this bulletin, sign your name, fold it on the heavy line, staple or tape, and ---- MAIL IMMEDIATELY.

IF THE BACK COVER IS NOT RETURNED WITHIN 30 DAYS, YOUR NAME WILL BE REMOVED FROM OUR LIST.

THIS NOTICE IS REQUIRED BY THE CONGRESSIONAL JOINT COMMITTEE ON PRINTING FOR THE ANNUAL REVISION OF FREE MAILING LISTS.

Please make any address corrections before mailing.

USDA-SCS-PORTLAND, OR 1976

M7—L—22030X

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

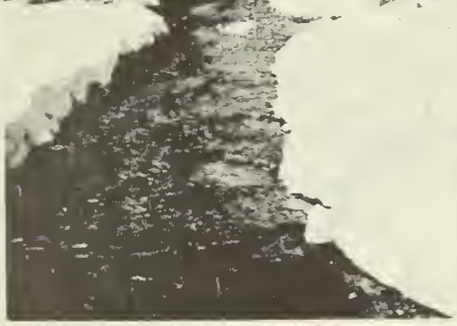
C. STEPHEN ALLRED
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
E. DON HUBBLE, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1977

Warm dry weather during the month of April has further aggravated the drought condition throughout Idaho.

Water supplies will be deficient throughout the state during 1977. Critical shortages will be experienced in many areas, particularly the south central and southwestern sections. Many small streams are expected to be dry by next fall. Seasonal runoff forecasts range from a low of 6 percent of average for the Bear River at Harer to a high of 54 percent of normal for the Henry's Fork at Ashton. Record lows are forecast for practically all watersheds in the state.

The winter snow accumulation has disappeared on all watersheds except at very high elevations and in protected areas. The melting snow produced minimal runoff on all drainages, setting new minimum April flow records at many gauging stations.

Stored water, though near average in many reservoirs, will be insufficient to supply irrigation demands for the coming season. Due to projected low streamflows and early drawdown for irrigation, reservoirs will not fill this year. Some smaller reservoirs are already empty.

Precipitation during April averaged less than 20 percent of normal over most of the state with a significant portion of south central and southwestern Idaho receiving less than 10 percent of average. Mean temperatures for the month were 2 to 5 degrees above normal.

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2288.0	2031.0	2006.0
Flathead	1791.0	877.4	1067.0	977.9
Pend Oreille	1155.1	419.0	467.1	534.3
Noxon	334.6	314.2	262.1	138.4
Spokane				
Coeur d'Alene	225.1	179.3	236.7	253.1
SNAKE BASIN				
Snake				
Jackson Lake	847.0	646.7	500.1	501.7
Palisades	1200.0	1126.1	173.7	774.4
American Falls	1125.0	991.3	1177.2	1089.7
Island Park	127.0	133.7	93.7	132.1
Grassy Lake	15.2	11.4	11.1	10.9
Brownlee	980.2	697.0	472.5	432.9*
Goose-Trapper Creeks				
Oakley	74.4	46.4	59.9	27.3
Salmon Falls Creek				
Salmon Falls	182.6	85.3	144.9	59.4
Big Lost				
Mackay	44.2	30.6	40.9	31.7
Big Wood				
Magic	191.5	84.0	191.5	170.2
Little Wood				
Little Wood	30.0	16.8	27.8	24.6
Fish Creek				
Carey Valley	14.4	6.2	11.0	--
Boise				
Anderson Ranch	423.2	340.5	324.8	282.0
Arrowrock	286.6	16.9	196.9	231.4
Lucky Peak	278.2	261.1	171.0	142.5
Lake Lowell (Deer Flat)	169.0	102.7	167.3	155.4
Owyhee				
Owyhee	715.0	484.9	694.3	563.7
Payette				
Cascade	653.2	355.1	354.3	353.8
Deadwood	161.9	95.4	115.2	92.4
Weiser				
Mann Creek	11.1	1.2	10.9	--
Clearwater				
Dworshak	2016.0	1029.1	364.8	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1050.0	1137.0	1040.0

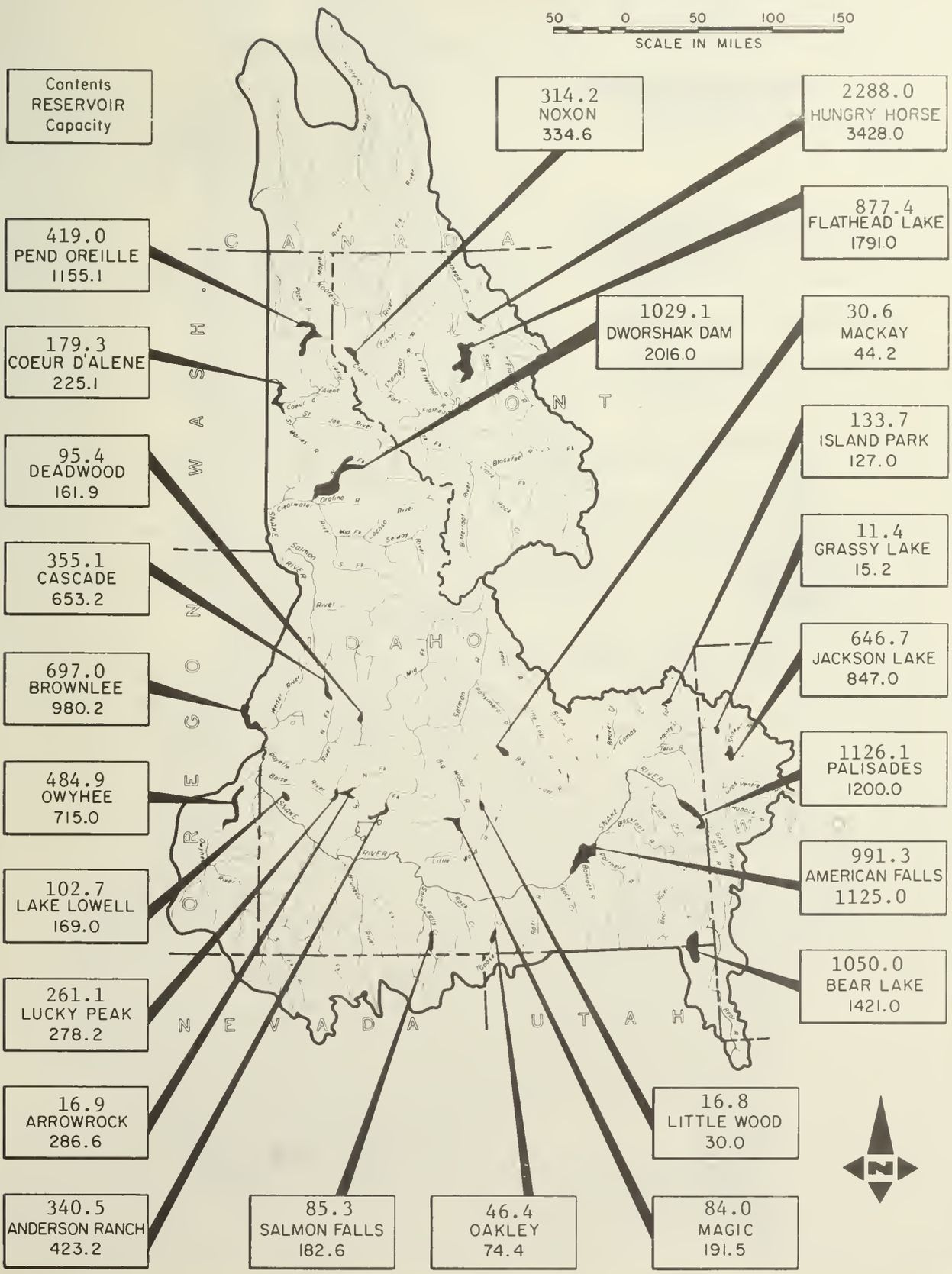
*Period of Record

USDA SCS PORTLAND OREGON 1974 M7-L-22023R

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1977



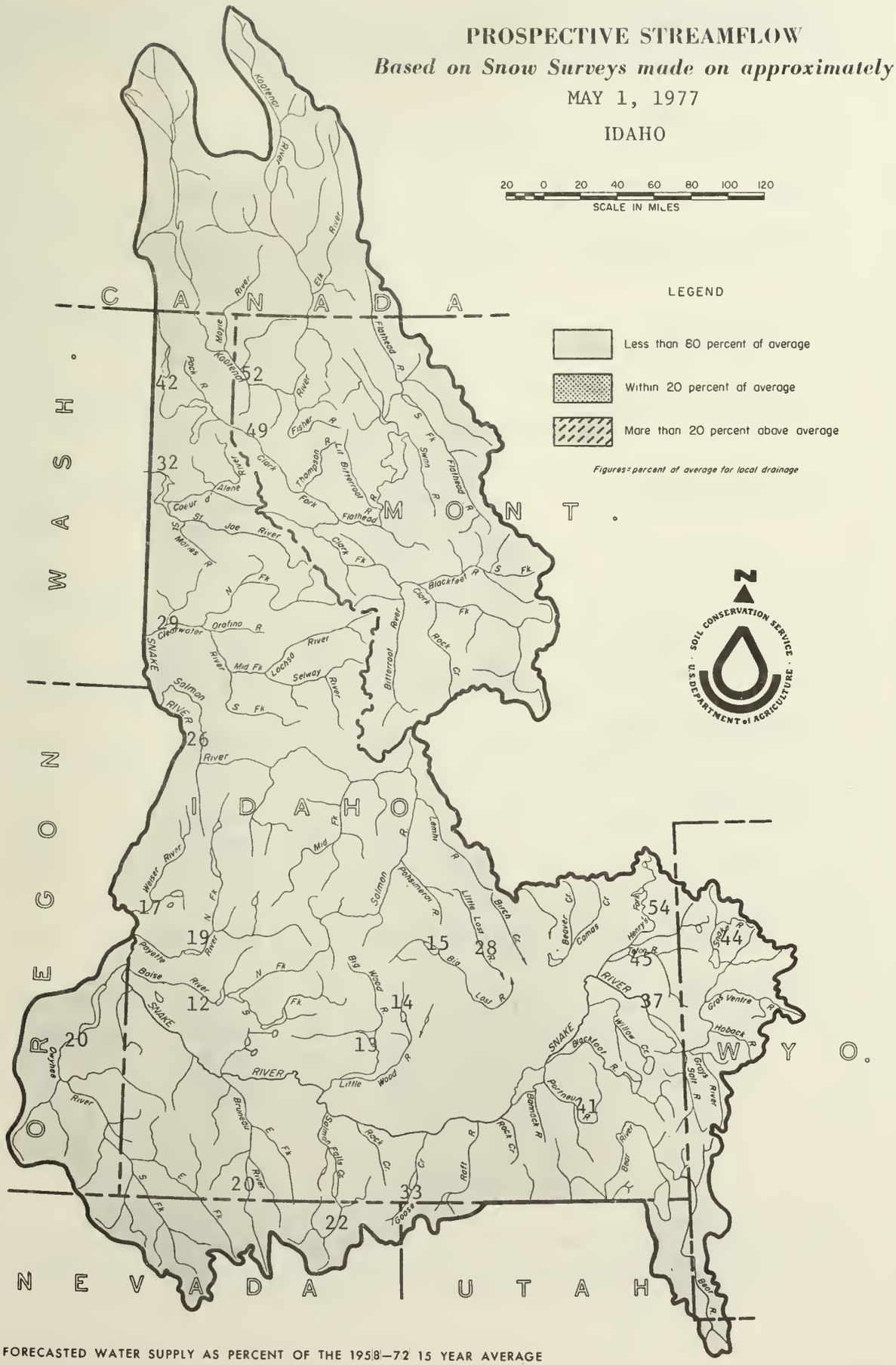
STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST c Thousand Acre Feet	THIS YEAR FORECAST c Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	4300	52	May-Sep	-	8262
		3550	50	May-Jul	-	7146
		2750	49	May-Jun	-	5620
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	6000	49	May-Sep	-	12553
		5250	47	May-Jul	-	11283
		4350	46	May-Jun	-	9523
Priest River						
Priest River 1/	(nr)	290	42	May-Jul	-	685
SPOKANE RIVER						
Post Falls 2/	(at)	650	32	May-Sep	-	2034
St. Joe River						
Calder	(at)	325	31	May-Sep	-	1047
		300	31	May-Jul	-	978
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	380	44	Apr-Sep	-	858
Heise 4/	(nr)	1350	37	May-Sep	-	3640
Blackfoot 5/	(nr)	1490	39	May-Jul	-	3812
Weiser	(at)	1520	30	May-Sep	-	5076
Henrys Fork						
Ashton 6/	(nr)	310	54	May-Sep	-	569
Rexburg 7/	(nr)	600	49	May-Sep	-	1226
Teton River						
St. Anthony	(nr)	180	45	May-Sep	-	398

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

+ 1958-1972 period.

USDA SCS PORTLAND OREGON 1974 M7-0-22023N



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958—72 15 YEAR AVERAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
UPPER COLUMBIA RIVER BASIN						
KOOTENAI RIVER						
#Bear Mountain	5400	4/27	48	23.0	--	68.8*
Halverson Creek	4850	4/27	36	18.0	--	49.7*
Smith Creek	4800	4/28	37	15.2	43.2	48.6
PEND OREILLE - PRIEST RIVER						
Bear Mountain	5400	4/27	48	23.0	--	68.8*
Benton Meadow	2370	4/27	0	0.0	0.0	0.0
Benton Spring	4900	4/27	0	0.0	14.5	15.7
#Mosquito Ridge (A)	5110	4/28	12	4.3	--	--
Schweitzer Bowl	4500	4/29	0	0.0	--	26.6*
Schweitzer Ridge	6100	4/29	31	14.5	--	50.6*
HAYDEN LAKE						
Chilco Ridge	3650	4/26	0	0.0	2.4	--
Conie Ridge	3900	4/26	0	0.0	2.8	--
Corner Creek	3150	4/26	0	0.0	2.2	--
Sage Creek Saddle	4100	4/26	0	0.0	17.6	--
SPOKANE RIVER						
Above Burke	4100	4/28	13	4.7	25.9	--
Copper Ridge	4800	4/25	0	0.0	28.4	27.3
#Forty-nine Meadows	4880	4/27	15	4.0	27.4	30.3*
Fourth of July Summit	3200	4/28	0	0.0	3.2	--
Granite Peak	6000	4/27	47	15.5	44.0	48.3*
Kellogg Peak (A)	5560	4/28	0	0.0	--	--
Lookout	5120	4/28	23	8.3	38.2	36.7
#Lost Lake	6000	4/27	52	19.3	59.2	62.0*
Lower Sands Creek	3400	4/25	20	7.3	19.2	16.0
Medicine Ridge	5920	4/27	47	16.2	46.8	51.5*
Mosquito Ridge (A)	5110	4/28	12	4.3	--	--
Roland Summit (A)	5200	4/28	0	0.0	--	--
Sherwin	3200	4/29	0	0.0	12.2	--
Sunset (A)	5600	4/28	18	6.5	--	--
LOWER SNAKE RIVER BASIN						
CLEARWATER RIVER						
Buck Meadows	5650	4/27	24	8.1	33.3	32.7*
Cayuse Airstrip	3700	4/27	0	0.0	0.0	0.3*
Coolwater Mountain	6200	4/27	35	12.4	44.2	34.5*
Crater Meadows	6100	4/27	48	21.4	46.8	50.2*

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average [b]
Crooked Fork		3600	4/27	0	0.0	0.0	--
Elk Butte		5550	4/27	17	5.6	37.0	36.1*
Fish Lake Airstrip		5000	4/27	34	13.4	43.2	42.6*
Forty-nine Meadows		4880	4/27	15	4.0	27.4	30.3*
Goat Lake		6600	4/27	51	19.7	50.2	54.7*
#Granite Peak		6000	4/27	47	15.5	44.0	48.3*
Hemlock Butte		5500	4/27	43	16.8	53.6	54.4*
#Hoodoo Basin	Mont.	6000	4/28	48	20.6	64.8	55.2
#Hoodoo Creek	Mont.	5900	5/28	42	18.4	56.4	52.2
Lolo Pass		5240	4/27	23	8.0	36.6	32.3
Lost Lake		6000	4/27	52	19.3	59.2	62.0*
#Medicine Ridge		5920	4/27	47	16.2	46.8	5.15*
Mountain Meadows		6300	4/27	24	7.2	27.0	27.3*
#Nez Perce Pass	Mont.	6575	4/29	5	2.1	21.4	15.6
Orogrande Mountain		7800	4/27	54	19.2	46.5	47.5*
Pierce Ranger Station		3170	4/29	0	0.0	0.0	1.3
Savage Pass		6170	4/29	26	8.8	36.2	29.2
Shanghai Summit		4600	4/27	4	1.9	23.8	24.0*
SALMON RIVER							
Big Creek Summit		6600	4/28	14	5.0	41.8	37.0
#Boulder Creek		5500	4/29	0	0.0	14.8	15.7*
Brundage Mountain		7560	4/28	18	6.4	50.2	51.9*
#Deadwood Summit		7000	4/28	3	0.9	45.0	48.4*
#Galena Summit		8795	4/29	0	0.0	27.9	26.0
#Gibbons Pass	Mont.	7100	4/28	12	4.5	30.1	24.4
#Lemhi Pass	Mont.	7480	5/1	0	0.0	14.4	--
#Lemhi Ridge	Mont.	8100	5/1	0	0.0	16.6	--
Mill Creek Summit		8870	4/27	10	3.7	29.7	25.6*
Morgan Creek		7580	4/27	0	0.0	17.7	13.1*
#Rock Flat Summit		5200	4/28	0	0.0	18.4	16.5*
#Secesh Summit		6520	4/28	8	2.3	35.2	--
#Squaw Meadow		5800	4/28	0	0.0	36.9	36.5*
Vienna Mine		8960	4/28	14	5.4	42.7	37.9*
Lemhi River							
Above Gilmore		8200	4/27	0	0.0	13.7	10.7*
Meadow Lake		9100	4/27	0	0.0	25.4	22.3*
MIDDLE SNAKE RIVER BASIN - NORTHSIDE							
BIG LOST RIVER							
White Knob		7700	4/29	0	0.0	8.6	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]
BIG WOOD RIVER						
Galena	7300	4/29	0	0.0	16.0	15.5
Graham Ranch	6200	4/29	0	0.0	7.1	7.0*
#Vienna Mine	8960	4/28	14	5.4	42.7	37.9*
BOISE RIVER						
Atlanta Summit	7500	4/28	4	1.2	38.8	36.1
Bad Bear	5500	4/29	0	0.0	11.2	5.0*
Graham Guard Station	5690	4/28	0	0.0	10.6	--
Jackson Peak	7000	4/28	0	0.0	37.1	31.8*
Moores Creek Summit	6100	4/29	5	1.5	39.2	31.9
Trinity Mountain	7780	4/29	0	0.0	45.0	44.2*
#Vienna Mine	8960	4/28	14	5.4	42.7	37.9*
PAYETTE RIVER						
Big Creek Summit	6600	4/28	14	5.0	41.8	37.0
#Brundage Mountain	7560	4/28	18	6.4	50.2	51.9*
Cozy Cove	5400	4/28	0	0.0	--	9.8
Crawford Ranger Station	4800	4/28	0	0.0	0.0	0.0
Deadwood Airstrip	5440	4/28	0	0.0	6.7	7.3*
Deadwood Summit	7000	4/28	3	0.9	45.0	48.4*
#Jackson Peak	7000	4/28	0	0.0	37.1	31.8*
Lake Fork	6000	4/28	0	0.0	18.4	--
Rock Flat Summit	5200	4/28	0	0.0	18.4	16.5*
Secesh Summit	6520	4/28	8	2.3	35.2	--
Squaw Meadow	5800	4/28	0	0.0	36.9	36.5*
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE						
RAFT RIVER						
Howell Canyon	8000	4/29	0	0.0	31.0	23.6*
SALMON FALLS CREEK						
#Bear Creek Nev.	7800	4/26	21	8.2	26.8	20.0*
Cedar Creek (A)	7000	4/29	0	0.0	2.3	3.1
Deadline	6900	4/29	0	0.0	27.0	19.5
Goat Creek (A) Nev.	8800	4/29	14	5.5	24.4	20.1
#Hummingbird Springs Nev. (A)	8945	4/29	14	5.5	35.0	26.2
Magic Mountain	6700	4/29	0	0.0	23.3	15.9
#Pole Creek R.S. (A) Nev.	8330	4/29	4	1.6	27.4	22.7
Red Point (A) Nev.	7940	4/29	0	0.0	3.6	--
Shoshone Basin (A)	5740	4/29	0	0.0	0.0	--
Wilson Creek (A)	7500	4/29	0	0.0	9.1	--

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
NAME		Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Average [b]
BRUNEAU RIVER							
Bear Creek	Nev.	7800	4/26	21	8.2	26.8	20.0*
Hummingbird Springs	Nev. (A)	8945	4/29	14	5.5	35.0	26.2
Pole Creek R.S. (A)	Nev.	8330	4/29	4	1.6	27.4	22.7
#Seventy-six Creek	Nev.	7100	4/26	0	0.0	8.1	--
OWYHEE RIVER							
#Bear Creek	Nev.	7800	4/26	21	8.2	26.8	20.0*
#Seventy-six Creek	Nev.	7100	4/26	0	0.0	8.1	--
Silver City		6400	4/29	0	0.0	11.3	8.9*
South Mountain		6340	4/30	0	0.0	6.8	7.1*
UPPER SNAKE RIVER BASIN							
HENRYS FORK RIVER							
Big Springs		6400	5/2	0	0.0	20.3	17.1*
Grassy Lake	Wyo.	7265	4/29	16	7.0	50.9	34.3*
Island Park		6315	5/2	0	0.0	17.4	10.2*
Sawtell Mountain		8720	5/2	8	5.5	36.8	38.1*
Targhee Pass		7000	5/2	0	0.0	15.9	15.4*
Valley View		6500	5/2	0	0.0	16.0	14.2*
White Elephant		7700	5/2	0	0.0	30.2	--
TETON RIVER							
Darby Canyon	Wyo.	8250	4/25	29	10.3	34.9	--
Freds Mountain	Wyo.	8150	4/25	22	8.5	35.7	--
Garns Mountain		8300	4/25	23	8.7	47.0	--
Indian Meadows	Wyo.	8240	4/25	34	13.0	54.6	--
Jackpine Creek	Wyo.	7350	4/25	17	6.9	33.0	--
McRenolds Reservoir		6800	4/25	11	4.1	28.7	--
Miles Creek	Wyo.	7300	4/25	0	0.0	15.7	--
Phillips Bench	Wyo.	8200	4/28	41	15.0	38.4	--
Pine Creek Pass		6750	4/25	0	0.0	24.1	12.5*
State Line		6650	4/25	0	0.0	19.6	8.4
Teton Pass W.S.	Wyo.	8400	4/28	22	7.8	36.3	--
GREAT BASIN							
BEAR RIVER							
Mink Creek							
Dry Basin		7900	4/25	12	4.6	--	29.9*
#Emigrant Summit		7350	4/25	6	2.1	28.2	23.6*
Horseshoe Basin		8000	4/25	11	4.1	--	29.2*
Liberty Spring		8600	4/25	27	11.8	--	44.6*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (inches)	Water Content (inches)	Last Year	Average b
Cub River						
Cub River R.S.	5400	4/25	0	0.0	0.0	1.0
#Franklin Basin	8000	4/25	9	3.0	32.2	--
Willow Flat	6100	4/25	0	0.0	11.1	4.0*
Worm Creek	6660	4/25	0	0.0	--	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

(DETACH HERE)

IMPORTANT NOTICE

WATER SUPPLY OUTLOOK FOR IDAHO

If you wish to continue to receive this publication, detach this page, sign your name in the space below, fold on the heavy line, staple or tape the folded page and mail. If more than one copy of the publication is desired, place the number in the box by your signature.

☐ Signed: _____

Suggestions, comments or remarks: _____

_____

_____

(FOLD HERE)

RETURN IF NOT DELIVERED
UNITED STATES
DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
304 N. 8th. ST. ROOM 345
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

SNOW SURVEY SUPERVISOR
SOIL CONSERVATION SERVICE
304 N. 8th ST. ROOM 345
BOISE, IDAHO 83702

USDA-SCS-PORTLAND OR 1976

M7-L-22023A

(STAPLE OR TAPE HERE)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

551.573
Un36wi

WATER SUPPLY OUTLOOK FOR IDAHO

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JUNE 1, 1977

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bazeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OR 1976

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C.

Released by

AMOS I. GARRISON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED
DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor
E. DON HUBBLE, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO

GENERAL SUMMARY FOR JUNE 1, 1977

June 1 snow surveys normally made on key snow courses were cancelled in 1977 due to lack of snow. Most courses were bare on May 1. 1977 was a record low snow year throughout Idaho.

Cool wet weather covered nearly all of Idaho in May, reducing the immediate impact of the winter lack of precipitation.

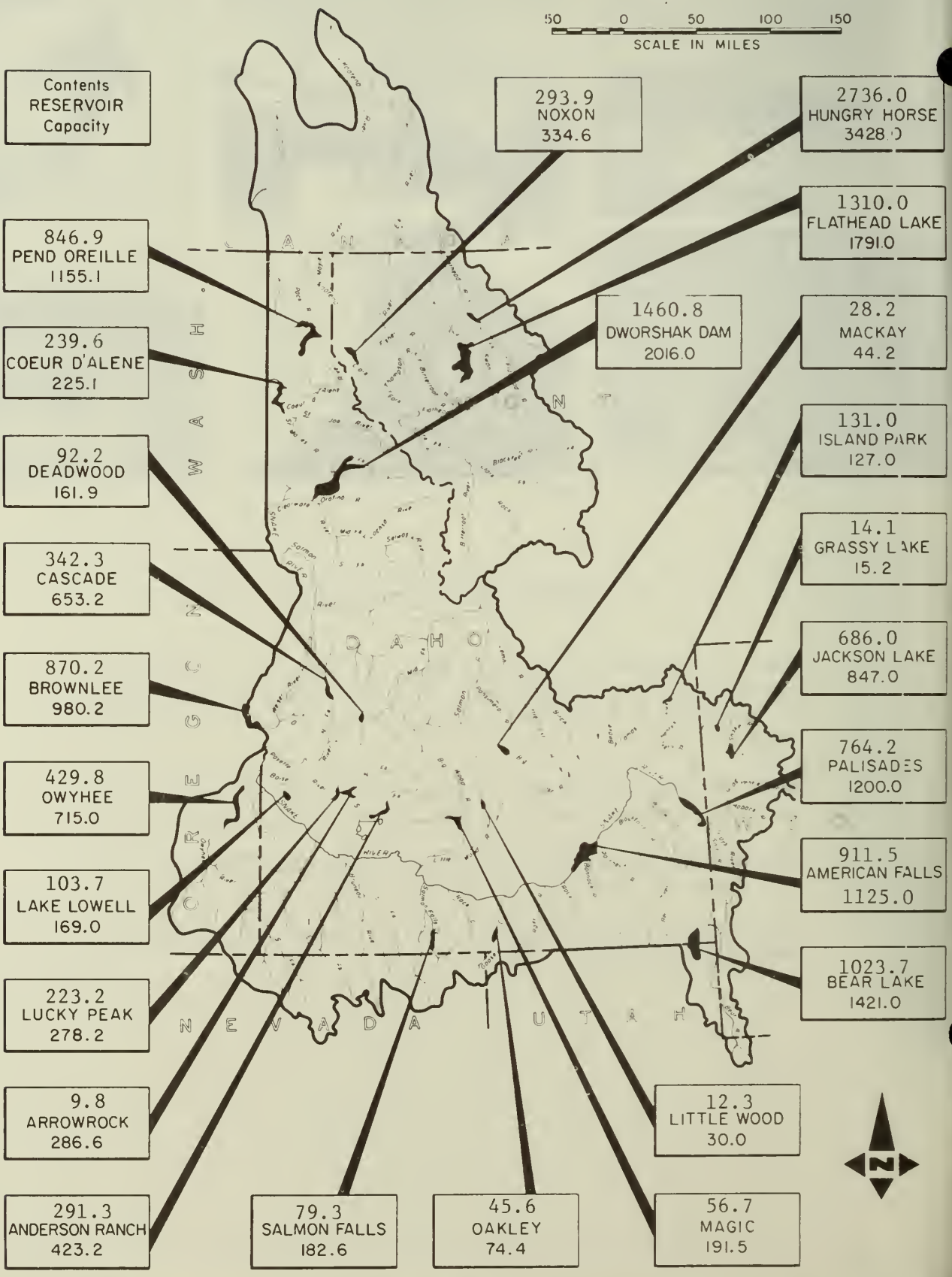
Water supplies are forecast to be well below normal throughout Idaho for the 1977 irrigation season.

This report carries supplemental and corrected measurements made earlier in the season.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1, 1977



USDA-SCS-PORTLAND OREG 1974 M7-OL-22023-6

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [b]

SUPPLEMENTAL MEASUREMENTS

JANUARY 1, 1977						
Kilgore	6200	1/1	0	0.0	4.9	4.4*
JANUARY 15, 1977						
Atlanta Summit	7500	1/17	11	1.7	20.5	--
Galena	7300	1/12	10	1.4	--	--
Galena Summit	8795	1/12	12	1.8	--	--
Graham Guard Station	5690	1/17	10	1.3	10.8	--
Jackson Peak	7000	1/19	13	2.6	19.7	--
Moores Creek Summit	6100	1/14	13	2.1	24.1	--
Mount Baldy	9000	1/17	10	1.8	10.2	--
Trinity	7780	1/17	11	2.1	23.4	--
Vienna Mine	8960	1/17	17	2.9	21.7	--
FEBRUARY 1, 1977						
Kellogg Peak (A)	5560	2/3	33	9.2	--	--
Mosquito Ridge (A)	5110	2/3	36	8.6	22.3	--
Roland Summit (A)	5200	2/3	30	8.4	--	--
Sunset (A)	5600	2/3	44	9.9	--	--
FEBRUARY 15, 1977						
Above Burke	4100	2/14	27	7.7	17.8	--
Atlanta Summit	7500	2/14	10	1.8	22.8	--
Bad Bear	5500	2/15	0	0.0	12.5	--
Bogus Basin	6120	2/15	11	2.2	17.7	--
Bogus Basin Road	5360	2/15	0	0.0	5.2	--
Breezy Saddle	5000	2/18	23	6.0	--	--
Cayuse Airstrip	3700	2/18	14	4.0	--	--
Coolwater Mountain	6200	2/18	32	8.4	--	--
Fishlake Airstrip	5000	2/18	35	10.0	--	--
Forty-nine Meadows	4880	2/18	22	5.4	--	--
Galena	7300	2/14	0	0.0	11.8	--
Galena Summit	8795	2/14	10	2.2	15.8	--
Graham Guard Station	5690	2/14	6	1.2	14.1	--
Hemlock Butte	5500	2/18	39	11.1	--	--
Jackson Peak	7000	2/14	12	2.0	23.5	--
Lost Lake	6000	2/18	37	10.4	--	--
Moores Creek Summit	6100	2/15	12	2.2	27.4	--
Mount Baldy	9000	2/15	9	1.8	11.4	16.4
Pierce Ranger Station	3170	2/22	14	3.0	--	--
Shanghai Summit	4600	2/18	20	5.7	--	--
Trinity Mountain	7780	2/14	11	1.8	30.9	--
Vienna Mine	8960	2/14	15	2.9	--	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average (b)
MARCH 15, 1977						
Above Burke	4100	3/14	47	12.2	--	--
Atlanta Summit	7500	3/16	26	5.9	28.0	--
Bad Bear	5500	3/14	10	2.9	18.8	--
Bogus Basin	6120	3/14	33	6.8	24.5	--
Bogus Basin Road	5360	3/14	10	3.0	5.4	--
Fourth of July	3200	3/14	18	5.6	12.6	--
Galena	7300	3/15	14	2.8	17.3	--
Galena Summit	8795	3/15	23	4.6	22.6	--
Graham Guard Station	5690	3/16	14	4.0	17.3	--
Irving	7035	3/14	14	2.5	--	--
Jackson Peak	7000	3/16	31	7.4	29.0	--
Lookout Pass	5120	3/14	58	15.4	34.6	--
Moores Creek Summit	6100	3/14	34	7.2	33.9	--
Mount Baldy	9000	3/15	20	3.6	16.0	19.7
Pierce Ranger Station	3170	3/15	21	6.0	--	11.1
Prairie	4900	3/15	2	0.6	9.9	--
Sherwin	3200	3/14	21	5.2	16.2	14.2
Trinity Mountain	7780	3/16	28	6.2	36.6	--
Webber Creek	6700	3/14	10	1.9	--	--
Vienna Mine	8960	3/16	32	6.4	32.7	--
APRIL 1, 1977						
Breezy Saddle	5000	4/4	58	15.5	--	--
APRIL 15, 1977						
Aspen Grove	6600	4/15	10	3.5	--	--
Atlanta Summit	7500	4/14	20	6.3	34.8	--
Bad Bear	5500	4/14	0	0.0	13.0	--
Birch Creek	6800	4/15	0	0.0	--	--
Blue Ridge	6800	4/15	0	0.0	--	--
Bogus Basin	6120	4/15	17	5.2	22.7	--
Bogus Basin Road	5360	4/15	0	0.0	0.8	--
Bone	6300	4/15	0	0.0	--	--
Breezy Saddle	5000	4/19	33	10.7	--	--
Brockman Guard Station	6430	4/15	0	0.0	--	--
Buck Meadows	5650	4/19	42	14.0	--	--
Coolwater Mountain	6200	4/19	58	18.2	--	--
Crater Meadows	6100	4/19	65	23.5	--	--
Elk Butte	5550	4/19	37	12.0	--	--
Fish Lake Airstrip	5000	4/19	51	17.4	--	--
Forty-nine Meadows	4880	4/19	32	9.8	--	--
Galena	7300	4/14	0	0.0	15.7	--
Galena Summit	8795	4/14	21	5.4	26.4	--
Goat Lake	6600	4/19	66	21.8	--	--
Graham Guard Station	5690	4/14	0	0.0	13.7	--
Granite Peak	6000	4/19	60	19.1	--	--

(b) 1958-72, 15 year period. #Not located directly on this drainage. ' Estimated 1958-72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

USDA SCS PORTLAND OREGON 1976 MT-0-22/23P

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average [1]
APRIL 15, 1977 (Cont'd)						
Hell Creek	7100	4/15	0	0.0	--	--
Hemlock Butte	5500	4/19	65	22.7	--	--
Henry Creek	5650	4/15	0	0.0	--	--
Jackson Peak	7000	4/14	22	6.4	35.8	--
Lookout	5120	4/14	42	15.3	37.5	--
Lost Lake	6000	4/19	68	21.7	--	--
Medicine Ridge	5920	4/19	60	18.5	--	--
Moores Creek Summit	6100	4/14	24	6.6	39.6	31.7
Mountain Meadows	6300	4/19	43	12.4	--	--
Mud Creek	7150	4/15	0	0.0	--	--
Orogrande Mountain	7800	4/19	74	19.8	--	--
Pierce Ranger Station	3170	4/13	4	1.3	--	--
Prairie	4900	4/15	0	0.0	0.0	--
Shanghai Summit	4600	4/19	27	9.3	--	--
Sheep Mountain	6510	4/15	0	0.0	--	--
Tex Creek	6700	4/15	5	1.0	--	--
Trinity Mountain	7780	4/14	20	6.9	43.1	--
Vienna Mine	8960	4/14	27	8.7	39.0	--
MAY 1, 1977						
Breezy Saddle	5000	4/27	15	4.3	--	--
MAY 15, 1977						
Lookout	5120	5/13	1	0.4	24.8	--
EXTRA MEASUREMENTS - FEBRUARY 22, 1977						
Bad Bear	5500	2/22	5	0.5	--	--
Moores Creek Summit	6100	2/22	22	3.2	--	--
CORRECTIONS TO PREVIOUSLY PUBLISHED 1977 DATA						
JANUARY 1, 1977						
Above Burke	4100	12/27	25	4.1	8.4	--
Crooked Fork	3600	12/29	16	2.9	6.7	--
Lolo Pass	5240	12/28	26	4.4	13.8	11.7*
MARCH 1, 1977						
Hall Creek (A)	7560	2/28	3	0.3	6.0	4.8*
APRIL 1, 1977						
Above Gilmore	8200	4/4	20	4.4	11.8	10.5*
Aspen-Hall Pass (A)	8110	4/4	28	5.2	13.2	9.6*

*(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average b/
APRIL 1, 1977 CORRECTIONS (Cont'd)						
Hall Creek	7560	4/4	17	3.4	7.5	--
Redfish Lake Flat	6570	3/31	18	3.9	14.8	--

*(b) 1958–72, 15 year period. #Not located directly on this drainage. * Estimated 1958–72 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

USDA SCS PORTLAND OREGON 1976 M7-0-22023P

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Coaperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Natianal Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Campany

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Contral
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Contral
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101

U.S. MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

DOCUMENTS LIBRARIAN
LIBRARY - UNIVERSITY OF ILLINOIS
URBANA ILLINOIS 61801

UNIVERSITY OF ILLINOIS-URBANA
3 0112 084234654